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<212> DNA

<213> Zea mays

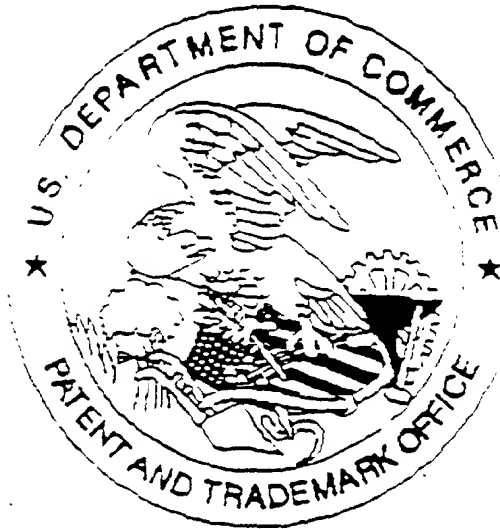
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☐ Page(s) _____ of _____ were not present
for scanning. (Document title)

Sheet 21362 WERE MISSING

☐ Scanned copy is best available

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 <213> Zea mays

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 gcacaaagga aggccgcacc ggcaggcagg acggcaagag ctaccgcttc ttcgacgagc 180
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<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-033-Q1-K1-A11

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gccgcacttg cttcaagcg ctttaagacca tttgcgcaa attccaccgt acttgcaaag 240
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318

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<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-033-Q1-K1-B10

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ccatgatgct gtcataact gctgggtgaa gaaaggacgt gctttcactg gtgaactcag 360
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<212> DNA

<213> Zea mays

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<213> Zea mays

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<213> Zea mays

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 <213> Zea mays

 <223> unsure at all n locations
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 <400> 49893

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tacctgatag  aannaagcta gcatnctgat ctagtcgtat ngcatcaaca tcatnacatg  180
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cgagatggag  ataagcaggt cgcagctcta cggcgagggt atggcgtgca cgtacgagga  420
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496

<210> 49894

<211> 248

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-034-Q1-K1-E10

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ggacaaatct aactaccaca cgacgcataat ccaagccttg aaatcacaca tcaactgcat 180

cttatagccc aacctctact atcaatacaa ctatactata acctacatgg acgtagccac 240

taacataa 248

<210> 49895

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-034-Q1-K1-E12

<400> 49895

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atacaatcat gactgtgcca gcgatgttat caagacactt gcattgaaca tccacaaaat 180

caacaagtat gttggcaacc ctgaagccaa tgaggaaaac gtaattttta aggcagaaca 240

agatgcccac attgggtcatg gtaaaagggg agatgtcaca atactaccaa cccttgatcat 300

caacaacagg caatacatat gtaagctgga caaagttgct gtccctgaaag cgatttggtc 360

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<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-034-Q1-K1-F6

<400> 49896

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<211> 281

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-034-Q1-K1-G12

<400> 49897

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gttaaaaaat tcaatgcatt gtatgaacaa ttttatitaa tgagttcaag agaagacttt 180
attcttgcac aatttgtacc acgttgtaaa ctctgtctca caggatatttg ctacacatgt 240
cgtacattta aacatcttac ttatatattc tcattttaac t 281

<210> 49898

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-034-Q1-K1-G3

<400> 49898

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gtcgataact gctccacaac tgctcgtttg ggatctagga agtgggcacc acgcttcgat 180

tacatcttga cccaacaggc gtttgtgact gttgacaaga aagcacgat caaccaagac 240
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aggcccaactg ttgacatctc agtgaccgct gatgctgatt tcgtgcgtcc agagcttcga 360
cagtcttcat aagcttgtat ggatccgcag tgtgactgca atggctagtt tgcaagaact 420
taatatgcct gggcttttg 439

<210> 49899
<211> 364
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-034-Q1-K1-G7

<400> 49899

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gtcgggtctca ttgaggctag gaggactgga aggtcagag gccaggctgc tgccacagcc 180
tccaaggctg acaaggctac cttagagtatt gttgttcttg ttttatttat ccctctgctg 240
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gtgtcagctt ttgtgggtctc tatggattat gaagtatgcc taaagaagtt ttttgggtgct 360
caat 364

<210> 49900
<211> 259
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-035-Q1-K1-A1

<400> 49900

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tacctatcct accttaccac ggtgcttttt cttgacaata tgaaacctt ttaaaatgtt 180
cacatacttt tccaaccaa atacttcgtt gaattaatca ctcatcagaa acaaacttcc 240
ctatactttt gtcaacata 259

<210> 49901
<211> 507
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 49901

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gttctgctgg taacgagttc cgtatgtcac tggttctacc aatocccaacc actgtnaact 120
gngctgataa cacatgagcc aagaaccttt acatcatttc tgtgatggga atcaaggggc 180
gctctataca gtcttatttt tgtctttgtt tgttacattg ttatagtatc ttttataata 240
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atatattctt taatttatatt atattat 507

<210> 49902
<211> 356
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-035-Q1-K1-B3

<400> 49902

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gcagctgatg catctgctgc ggtatgtacc ctgacgtgta gaccgacttc cccaccttcg 180
tcaagaccac tgtcctcgct cagctgccgc ctctattcag gatccaatct ttcttacgcg 240
tgcttgcaac tttatatatt ttctatatte ttacataaat ttaatttatt ggcttcatt 300
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<210> 49903

<211> 171
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
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 <400> 49903

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 aagagacctg ctgatgaaca cccacaacca ccatttaaca tgctaaggaa c 171

<210> 49904
 <211> 195
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-035-Q1-K1-C10

 <400> 49904

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 cgcaagtata gccatggctc gtggcggatc tgggtgccgt cttctcgtcc tgctcctagt 120
 cttgactgcc ttcaatggca gctttgcagc tcgacatctc ttggacacag caactgcgcc 180
 agaggccacg cctgc 195

<210> 49905
 <211> 152
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
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 <400> 49905

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 cgtatctttt tgccggcttc tcgccctgct cctagacttg actgccttta atggcagctt 120
 tgcagctcga catctcttgg acacagcagc tt 152

<210> 49906
 <211> 339

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-035-Q1-K1-D2

 <400> 49906

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 cgtcaccctc gctgggatcc tcggcggcgg cgccctctct gtctacaaca ccagcgcctt 180
 ctccggctaa ggatatccaa tgcattgcgt tcttgcgatt cgtcatgtaa aatcagggtg 240
 tctgtctata atctagctct catggatgct caaccttcgt catgtaacaa taatcagtgc 300
 tactcttcat tacataattt ggatgctata tatataaaa 339

<210> 49907
 <211> 265
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
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 <400> 49907

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 tgctgccctt gcatcttctt tatttagtta tcttttttct tttctttttt ttattatcta 180
 tttcttttat tttctttttt ttatttttat ttattttttc tttttatttc ttttttttta 240
 tctttctatt ttattatctt ttctt 265

<210> 49908
 <211> 441
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
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 <400> 49908

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cgcctcaggg cctgccgccc ctggccgcc gcgcctcctt ctttgccgtc gtctgcttca 180
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 taccatttct tgagagtgcg tttatgctac taatgatttc atttatttct atctatttaa 300
 atttgactcc tattcagttg actaactatt tttctttatt ctcatatacc attttatttc 360
 tttcctatgg gcaccatttt ttttttgtat ttaatttgac tttttctttt ttatatttct 420
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 <211> 273
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 <213> Zea mays

 <223> unsure at all n locations
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 attatttatt tttctaataca agctcgta ca ggcttattgt gcacagacaa attaattggt 180
 tttcatgtgc gttccttttag gttcagacat atttgaata ccagactccc ccaattcttg 240
 ccaaaaaata ggcagttatc aaattnaaaa ata 273

<210> 49910
 <211> 337
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-036-Q1-K1-A9

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 aagggaggct gctgtggtca tacaaggtct aaaaaagatg ggtgttcata cagttatggt 180
 cactggggat aactggagga ctgcacgagc agttgcaaag gaggttggca tcgatgatgt 240
 cagagccgag gttatgccgt ccggaaaagc cgatgtaatc cactccctgc aaaaggatgg 300

cagtgttgtc gcgatggctg gagatggcat caacgac

337

<210> 49911

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-036-Q1-K1-B2

<400> 49911

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ttccagaaag ctactatcg tttgttagca tcttccactg tatatttctg aaatttttag 120

atctattgtc tgccttttat ttttatatct aatatctcat tatttttctc cactttttta 180

taatcattta tattttattt catttttagt tttatttttt ttattttttt tattttttta 240

tttttttttt attttatttt tttttttttt ttctttcttt tttttttttc tttttttttc 300

tttttttttt tttttatttt cttttattat ttattttctt ttattttttt t 351

<210> 49912

<211> 335

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-036-Q1-K1-B4

<400> 49912

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cacgttggtc gtccccctct catcctgctt tatctgctta tttaacctta taatctcatt 180

tagtatctta cttttacatt ctattttttt aattatttta tatctatatt ttttattttt 240

tttttattta tttcttttat attatttttt atttatttta tatatttata tattatatat 300

ttattttttt tttttttata ttcttttatt tattt 335

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<211> 346

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-036-Q1-K1-B5

<400> 49913

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acggggaggt ccatgagcag gagatcgaaa agcttagcac ctattcaaga agttcattct 180

atagcaccct cacaagcgcg acacccatct caagttcaat ctcgacgagt tacaacaatt 240

atagcatcat ctctagtgcg gtgactgttg ctgttccaca ttgtagtggt ttttctgatt 300

cagtttaacc tgtattttgt tttttatattt attttttttt tttttt 346

<210> 49914

<211> 280

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-036-Q1-K1-D1

<400> 49914

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actctcgctg ggccatgctg ggcgcgtggg gctgggtgtt cccggagctg ctgcgccgca 120

acggcgtcaa gttcggcgag gccgtgtggt tcaaggccgg gtgcgagatc ttcagcgagg 180

gtgggctgga ctacctcggc aaccgagcc tgatccacgc gcatagcatc ctctccatct 240

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<210> 49915

<211> 424

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-036-Q1-K1-D10

<400> 49915

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gacaagatca tttgggacaa ggagattgaa gtagctgacg agcatgctaa gaagcctctt 240

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gaagctgcct acaagcgtaa tgggggtgcct gcattgattg ctgagggtcaa gaaagcatcc 360
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aaag 424

<210> 49916
<211> 433
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-036-Q1-K1-D12
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tcaacagaat gtccatgaag aagggtgttca gggtcatact agatactctc accacacgca 120
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ccatttggga aca 433

<210> 49917
<211> 280
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-036-Q1-K1-D2
<400> 49917

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<210> 49918
<211> 361
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-036-Q1-K1-D7

<400> 49918

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ctaggcgatc atcttggttg cttttctctt taacattttt tttttttact actacgattt 300
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t 361

<210> 49919
<211> 216
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-036-Q1-K1-E10

<400> 49919

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tcaacaagca agaaagcaca tggcaagcgg caaggttgca catgccaccc tcaagggcc 180
gagtgaggct gaatgagatc ttcattggac tgaccc 216

<210> 49920
<211> 332
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-036-Q1-K1-E11

<400> 49920

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 gggggtggag gcgccaccgc ccaccggcca ccgctgcgga tatctaggtg ttcggatgca 240
 cgtgagcgcg cactggttcc agtttgtacc atgatgtaaa ttacttaccg taccagggtt 300
 caatcggcaa ggaagaattg ttgtgttcaa aa 332

<210> 49921
 <211> 362
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-036-Q1-K1-E7

<400> 49921

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 cgagtctaga atcaatttat aataatgtta tcatatcatt ttctttttta atttaatatc 180
 tcttttaatt tcttattatt ttattctttt tattttttta ctcttttatt tatttatttt 240
 ttctatttct ttatttttat attttttttc tttttatttt atttatttct tttatttatt 300
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 tt 362

<210> 49922
 <211> 415
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-036-Q1-K1-F11

<400> 49922

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 aactcgcga cgaagccctt gaaaagcgac tcgctgcttt ggaaggctctg caaagccctg 180
 aggctgcacc ggatgtggat acgccatctg attagtctgt tcgctacgag actttgattt 240

acgtctgttt tcgtttgccc cagttgtctt ctcttttgaa agcaagtacc tgaccaacaa 300
 caaaataatc taggatgctt ctttgtactg caaatgtctg aggctgagaa tctnccctac 360
 atttcatgcc agaaaagcac atgaacatca aaactctgat tactcaggca tactg 415

<210> 49923
 <211> 195
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-036-Q1-K1-F2

<400> 49923

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 agataaactg taaattgata gataataaga tgttttctat ctcatgttta gtgtcaaact 180
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<210> 49924
 <211> 356
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-036-Q1-K1-F4

<400> 49924

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 gcatcgaccg tgacgtgaga tatcgtagtc taattattgc aactggagct actgctaagc 120
 acctacatct acctcgtcaa gataaattct gcagtttcgg catcaactca tgtgcaatat 180
 gagatggacc ttcaaccatt ttcaaggtec aggttcttgc aattgttatt atttgtgctt 240
 catatttata atgatctgtt cttttattta tttaattatt ttattttttt ctttttattt 300
 tgcttttttt ttttctcttt ttattttttt ttattatttt tatatttttt tttttt 356

<210> 49925
 <211> 360
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-036-Q1-K1-F6

<400> 49925

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ctcttttcgcg caatgtcatc tgctcgaagt tgtatggcaa gggctcgaag tctggtgctt 120
caatgaggtg ccttgggtgc cagggtcat gcatgaaagt cactattctt cagctgtgcc 180
cttccatgat acagcatatg catcagtcctt tcaatgaatt caattgtact gtatagagca 240
ttatttttat ttacctgtat gttttttgtt ttattgtttt ttaatctata ttttttatat 300
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<210> 49926

<211> 321

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-036-Q1-K1-G10

<400> 49926

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taacgcagtt ccttccgccg cagcccgatg catgatgggt ctccagagcg acattgatct 120
gctcaaccgg ccggcagaa ctcgagaagct caagcacaag aaaaagagac tcgtccagtc 180
tcccaactcc ttcttcatgg atgttaagtg ccaggggtgc ttcagcataa ccactgtttt 240
tagccactcc cagactgctg ttgtgtgccc tggctgcca actggtcttt tgctactcac 300
acgacgaatg gcacggctta c 321

<210> 49927

<211> 454

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-036-Q1-K1-G12

<400> 49927

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taaagagggtc gagaaagagg cggatgttcg gttaagatgc atagcagcag catgaatagg 120
gagatcagct aggctacga caccattctc tttggcatca acgctgctt caaagtcgac 180
cttgccacgt cgtatctgtt ctagtctact atccaatctg agactaagtt ctggtctgac 240

atgattaagt tcgttactga ttctatatac tgatctgttt taatatacctt aagtttttta 300
 ttcataatatt gtcttttggt ttcattatatt tttttgtggt atgctcttat ttttattttt 360
 ataccttttt ttatataatct tttttttttt ttattttctt ttgttttttt tttttttttc 420
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<210> 49928

<211> 350

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-036-Q1-K1-G4

<400> 49928

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 agtgtcgccg aggttattta caacaaagag actggccaga gccgtggggt ttgcttttgtt 120
 accatgagca ctattgagga agctgataaa gccattgaga tgttcaaccg ctatgacatt 180
 agtgggagggc ttctgaatgt aaacagggca tctcctaggg gcactcgcac ggaaaggcct 240
 tcgagacaat ttgcgcctgc tttcagagct tatgttggca acttgccatg gcaagctgat 300
 gactctaggg tgggtgcaatt gttcagcgag tactgagaaa tctttaatgc 350

<210> 49929

<211> 339

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-036-Q1-K1-G7

<400> 49929

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 ccctgttgtc atcgggtgttt caatgggatc cgttactgag ctctcatgca actggactgg 120
 cttcatcaat gccatgatat caaacatctc attcacctac aggagcattt attccaagaa 180
 agccatgact gacatggata gcaccaacgt gtatgcttac atttcaataa ttgctctcat 240
 tgtttgcatc ccgcctgcag tgatctttga agggccccgg ctaatgcagc atggattcag 300
 tgatgccatt gcaaaagtag gcttgacaaa ttttgttag 339

<210> 49930

<211> 378
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-037-Q1-K1-A6

 <400> 49930

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 ctccaagtgg tgcaagaagg aagagagggc gcatgatgat ggaagatgag gatccattga 120
 tatgcactgt cactgaatct tttaagactc tttcatgatg caatcaagca gtcacacca 180
 tcatccacag tccgataatc ctaccgaacc tatggactat gatgaaacag attcctgttg 240
 ttgaaagaga acatatagct gactactatg tctacttggt cgagaatata tcccttgctt 300
 atgccttcct agagatggaa ctagatgatc aaatggtagt ggtgtctagg tacatcaaga 360
 ctcatctctg ctgattga 378

<210> 49931
 <211> 76
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-037-Q1-K1-B6

 <400> 49931

 aactaccggg tgcaccgacg cgtccgacca cgcgttcgca acatatggct tttaaagttt 60
 agaaccatga tcaaaa 76

<210> 49932
 <211> 258
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-037-Q1-K1-B8

 <400> 49932

 gaggtacaac cgggtgaaggg ggggtaggaa gcagcaacaa tggtaagagt tctactactg 60
 agtgggggaa aaacaacttg cggctgggtt agtgaagctt agtagctacc actattcaag 120
 agttaaaggg agttcgtatg acagttcctc tggagatggt atcttcaaag tcttatatca 180
 ctgctacttg tgagctgtgt taaaacctat atatataagt cacgtttgac gtgactgcat 240

taaagatagt acaaaaag

258

<210> 49933
<211> 606
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-037-Q1-K1-C7

<400> 49933

ggctccgtgta attccccgggt ccgactccac gccgtctcgt cggaccgccg taggggggca 60
gcccattcatg ttctcgcagc atctcggctc tcnnnggcaa acntcncna agaactctgg 120
gggcgcgtcc taggggctcn ctagcaccag ttanntcgtc cgtctnacca gcttcgcnnt 180
cgcgtagccc anngettctt ggttttccct ttcttccttc ccgcgccttc ggaccatcgc 240
nncagtgaag ggcccgcgcc gcgccccgtc gtttgaaaat cctgggttttc ttccctatct 300
cgcnntgcgc tcatcgtcgt cgtcttcctt gctttcgttc ccgcaccgtc gcttcccagt 360
ccaacagctc gttggctttc ccttggtgcgc ccggttgccg atgnnccgtc gccgatccc 420
ttgttngcct tggcccgatc ccttggtgcc ttgccgaagc tcatcanccg ccgcgaggac 480
tctgnncatc gctgtgctca agccacgcct tncctagtcc gtcttgcaaca tacctcatct 540
ccaaacaggg gaccacgctg ccgactatct gaccccgctg ttgcctcgca gcgctcgaac 600
actatc 606

<210> 49934
<211> 340
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-037-Q1-K1-D1

<400> 49934

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ccagtggcga gagtgaacat cgacacaggg ctgtacgagt cctgcgacgg tgagggcaca 120
aatgcacagt cgctagctga cttcgccaa caactctctg acgagcgcaa gctacgcaag 180
agcaatctca actccaacta ataaatacct ctctcagtca cagcatgtgc tctttccgca 240
gattcaccgt ttcttatttt taatttaatt tcaattctgt gtgtgtgtga ttgtgtgtgt 300

gactgtgtgt gtaccaataa acatttaagt tcaatcaaaa 340

<210> 49935
<211> 505
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-037-Q1-K1-G1

<400> 49935

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agcgtagtcg tgcgccgaag gaaaggcgcg gagcaagggtg tcgtggcagg cgtacgtcga 120
cgagcacctg atgtgcgaga tcgaaggaca gcatctcagc gccgccgcca tcgtcgggtca 180
cgacggcagc gtttggggcg agtccgagag cttccccgag ttaaagcctg aggaggttgc 240
tggtatcata aaggactttg atgaacctgg tactcttgca ccaactggtc ttttcgttgg 300
aggtacaaag tacatggtga tccaagggtga acctggagtt gtcacccgag gaaagaaggg 360
cactgggggc attactatca agaaaaccgg catgtccttg attattggtg tctacgacga 420
gccaatgact ccagggcaat gcaacatggt ggtggagagg ctgggcgatt acctgattga 480
acatggcttc taaaagttcg ctata 505

<210> 49936
<211> 435
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-037-Q1-K1-H4

<400> 49936

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aagggtcntt acggcatact cgctggcgca gnnctgctcc tcacgcgacc gccgtnnctc 120
cgccctctac cgggtttctc aaccccatec ctcaatcgcc acgcctcnnt ccgactccnn 180
ccgggctctg cgcctcgtgc ctcnngcgt cctggggcct tcatectggg atgateccat 240
tgtanntcat tatcagcacc aagccacca cactatattt cgttttccct gggtnctgtt 300
cacagttgtg ccttgagcnn nntcagcatc ggtnngtggc ttgtgectaa ccaccaagg 360

ggannaaatc gttctggagg gccttttagtg gctgaccggc nntggcgtgg tgnnngtttc 420
tctggacctg gcgta 435

<210> 49937
<211> 387
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-038-Q1-K1-A1

<400> 49937

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gttcgccgcc gacggctcga ggtggccgag cgaggtggag ctggagcacg ccttcaccca 120
ggggaagtac ttcgcaggca tcgccaagaa gctcaagggt tcagcctgat ctacacatat 180
acccttgtcg gatatacataa aaaacactta ttacagattc gtcttaccga tcaatagatc 240
ggtctgttct ctcggtgtgt ctggatgttg tgtggctcag tggaactttc atgctacggt 300
gactntgttg taatctggag ttggaatatn cgtgtttcgc ataaatttcg atgatttgct 360
caagtaaacy gtttgtttgg ttcaaaa 387

<210> 49938
<211> 338
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-038-Q1-K1-A10

<400> 49938

attccccgggt cgacgcacgc gtccgcccgc gcgtccgcac ggagcccaag aggctttcat 60
acaagccctt gcgtctgccc ctccggtatg tgtacaagat tgggtggcgc ggaactgacc 120
cggacgaacc tcttcatact cggcttcttg cggcgttctt ctaagcctcg cctcggctta 180
atggggcctt ttggaactca tcgcgggatc tgcttgagtt gacaaagcat ggcactctgcc 240
ttctcgccat tcttgtcacc tttgtcggga caatcatgcc tatatcattg actggccttt 300
taatcttcat gttctttctg ctaattgccca cttctaata 338

<210> 49939
<211> 331

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-038-Q1-K1-A3
 <400> 49939
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 cactggtatg ggtggcctcg cgggtgtttc tgatggtgtt cagaatctca ttgagaaggg 120
 ctacagaaaa ataactcctt tcttcatccc atatgctata acaaacatgg gttctgccct 180
 gcttggaatg gatattgggt tcatgggtcc aaactactcc atctcaactg cctgtgctac 240
 ctcgaactac tgtttctatg ctgcagcaaa ccataatccgt agaggcgaag cggatataat 300
 gatagctgga ggcactgaag ctgcaattat t 331

<210> 49940
 <211> 369
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-038-Q1-K1-B12
 <400> 49940
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 acatccgctc caactgggat ggaaattgag tttgtggaag ttcgtaaaca tgggctgtgg 120
 cttttggcta aaaatgtgaa acagtatatc cacagaatac ttgttgaggc tgacttcagt 180
 gctggaactg gtgatgattt atgggctgct gtgggcgaag ctggtaaaaa cctttacgct 240
 taaggcgaat tcaaagagtc gcaagttgca aaccttgatg tctatttggg gaaaaagggt 300
 tggacttttc cctgatgtta taaagaagaa aacattgcgc catcttgaaa aatgagataa 360
 tgtcttaac 369

<210> 49941
 <211> 324
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3078-038-Q1-K1-C10
 <400> 49941

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 ttcccttgct gaattcgtga actctcacc gctcgaaaag aaagaagcta gcttttagca 120
 tggcgctctt ggcgttcggc agcaccgtag cggcgggccgt ggcggcgacc tcggggagga 180
 cgcgggccggc ggcgggtcc gtgctggctg tgccgcccgc tgccagcaag ggcggcccgg 240
 cgccggccaa tgaagagaaa ggcctcggcg agaccatctt cggcttcac tcgaagaaag 300
 accaacttgt ggaaacggac ccgc 324

<210> 49942
 <211> 211
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-038-Q1-K1-C5

<400> 49942

accacgcgt gcgccacgc gtacgtccac gcgccgtgc tcagcggagt cgtgttccag 60
 cccttgagg aggtcaagg ggagctcgcc ctgctgcccc agtccccaga caagtcgctc 120
 gcgcgccaca agttcgtcga tgactgcgag gccgccctta acgagcagat caacgtggag 180
 tacaacgcct cgtatgcata ccactccctc t 211

<210> 49943
 <211> 169
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-038-Q1-K1-D11

<400> 49943

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 ttaatacaat aattaatata aatatataaa agtatatttt tgccttatgg aaatattttg 120
 gattgttaca ctagtacata catgtgaaat atggattttc acgtcgata 169

<210> 49944
 <211> 417
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-038-Q1-K1-D3

<400> 49944

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gtgggtggcg acaaggtgcc gctgtacggc ggcggttcgg gcctgagcag caccgcgact 180

acgtgtccgc cggccaggaa gcgcgcgccg ggcgtggtgg tgcttctga cgccgtgccg 240

ctgcagctgg cgggtcggct gcggtcgcgc gcgttcgtgc tgggcaggct cgtcgcccc 300

aagttctaca ccgaggcgcg gtgccgcgtt accatggacc agaccaggct cggcaggccc 360

agtctccctc gtcaaggcct gcacctacac tcactagcta gcgtaacaca cacacgc 417

<210> 49945

<211> 401

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-038-Q1-K1-D7

<400> 49945

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gcgccacaag ccggcagcga tgccaagtca tgcgctgctg ccgtccttga ttttaccggg 180

gaaagagctg tgtgtgaggg tctgaagtga agaactgcc atgcccattgc gtgtacatta 240

tcgagagggg gaagaaacct tctcattctg atctctgata tgactgctgc ttcagattgc 300

gcctgagata tgctaagttt ttgaaagcta attagtctgt gcacattaag ggtgcgtttg 360

agttggatta tttgtgaatg ctagctnatt ttaacttaaa a 401

<210> 49946

<211> 355

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-038-Q1-K1-E1

<400> 49946

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gcgtncgaac agggagtcgt gatcgcggtgc cacagcaagg ctgagtatga cgcccacatg 120
 accaangccc cangaagccg gctagctggt ggtcattgac ttcactgncg cctgggtgcgg 180
 tccatgccgc gccatcgnc cactgttctg cgaacacgcc aagaagttca ctcaggtcgt 240
 gttccttgaa gtggancgtg acgaagtga ngaagtcacc gctggctacg aggtcgaggc 300
 gatgccgacc tttcacttcg tcaagaacgg caagacggtc gcgaccatcg tgggt 355

<210> 49947
 <211> 252
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-038-Q1-K1-E7

<400> 49947

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 gagttcatgg agagatgtca catcctagtt cgtcgtcacc gtttgccatg ggtccaatgg 120
 ctctgtcttg aaacctgcac ttcagtaggc catctatcgt ggtttctagc tatatccaga 180
 gttttgtgct aagacaaatc agtcagtcgt tttgtgaacc tattatgatg gagctttatt 240
 tgctgctaaa aa 252

<210> 49948
 <211> 211
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-038-Q1-K1-F9

<400> 49948

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 ttctcacatc atatcttgcc aataagggca tacgtatgaa aataaaacgg gctacgtttg 120
 tatacactta taccgtgtta ctatgttagt gaaatagtga agtaacatca tttgggaacc 180
 ttgctatgac ttatgagctt attctccttc t 211

<210> 49949
 <211> 247
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-038-Q1-K1-G11

<400> 49949

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ccttccccta tggttaagta ctcacaggag ccggtctacc ctaccaaagg ggccaacgcc 120
attggaaggg acctgagggg ccactttaag aacacaaggg agacagcttt tgcgcttcgc 180
aagctgcctt tgaccaaaagc taagcgatac cttgaagatg ttatttctca caagcaagca 240
attccct 247

<210> 49950

<211> 493

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-038-Q1-K1-G6

<400> 49950

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taaaaggcta tcgagatcga tgaggaagct tgcaagagag ctgagggaca cagataaata 120
tgagaacgag cagtaccagg acaaaatgag gcagtcagat gaacggctcc tggccctggg 180
caaggcggcc atggacgtgg tcgtggccgt cgggcttctt cagctggcgc ccaagaaggt 240
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aaaaaaaaag aggcgacgct ggaaatcgat ctctgcttca acaatggatc gtaatataat 420
tgtattatgc gaatataagg cangetagct atgtattntt ttattaaaaa atagtacaac 480
agaatagaac acc 493

<210> 49951

<211> 206

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-038-Q1-K1-G7

<400> 49951

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gagccccaca aaatgggcat ctgtattcaa ttgcatcgac taggtatgga tgataacttt 120
gatgggcgaa ccggtagctt ggggtgtccc cgtgcagttt attatgatcc tgaaactggc 180
caggaagacc cctaaaagaa tgggtgt 206

<210> 49952
<211> 185
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-038-Q1-K1-H1

<400> 49952

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agcctggagc ctcacaaaat gtgctggctgg attcaattgc atcgactagg tatggagata 120
actttgatgg gcgaaccgca agcttgtgtg ttcgacgggc aggttattat gattctgaga 180
ctggc 185

<210> 49953
<211> 262
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-038-Q1-K1-H8

<400> 49953

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gtaacgagcg aacaagggtta ccagaaattg ggcgatatag atttactagg tctggatctg 120
taatectccc tgcatagctc ttattcgtaa ctcgctgtcg gcacgaaagt tgggtgtgcgt 180
tttagcagaa tgctttctgt ccgtgaaagt aaacttgaaa ctgcttatta cgactgaaat 240
gatattgtcg ttcccccaa aa 262

<210> 49954
<211> 377
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-039-Q1-K1-A10

<400> 49954

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 cgaatggatc atgttgctag aagaaagggc tgtgcagttc aagtagcggc tgagaagggg 120
 ctctttgcat tggctataaa tctacaagtt cctggcacta caaactacag tatggttttc 180
 tactttgtta cgaagaaact gataccaaac tccttattgc aacgctttgt ggatgggtgat 240
 gacgaatttc ggaatagtag gttcaagttg ataccatcag ttcctaaagg ctcatggatt 300
 gttcgacaaa atgggtggcag cactacttgt ctattatgaa aaagctgtga cattacctat 360
 atacgtagct caaatta 377

<210> 49955
 <211> 288
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-039-Q1-K1-A2
 <400> 49955

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 ggctgctgga cgcgtcccac cgcggccgcc tgctgtcccg cgcgggggcg ctgaacatcg 120
 tgccgacgag cacggggccc gccaaaggccg tggcgctggg gctgccgcat ctgaagggtga 180
 agctgaactg catcgtgctg cgggtgccga ccgcaacgt gtccgaggtg gacctgggtga 240
 tctacaccgt gaagactggc atgacgggtca aggacgtgaa cgcggttt 288

<210> 49956
 <211> 298
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-039-Q1-K1-B12
 <400> 49956

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 gtgcagggga cgaaaataa cacacgatgg tgtgttgctg ctctagtggg cggaggtccg 120
 tcagattctt cttttttttt tgtcccattg ttgagacagc aaccgaggat ataagattgg 180
 atggagatga ggtctctgtt tggcttgtgc tgatgcctgc atgatgtgct ctgcgatgtg 240
 catccagttt tgggatcaag ctgctccact tttccggagc tgcccttgca tggatttt 298

<210> 49957
 <211> 282
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-039-Q1-K1-B6

 <400> 49957

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 gtaagggtgaa gaaacattcg attcatcatt ccgtggccat gctaataag ttgtggagga 120
 aagaattgct gacaatgatg taattctggt aaaaggccca aagaccacca acgcggtctt 180
 aatattacta agggccccaa atgcctactt cttgttaag attgaacggt cttgcataa 240
 tgccctgtcc atgtgaaaga gaaccttgaa atcaaatatg gt 282

<210> 49958
 <211> 319
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-039-Q1-K1-C12

 <400> 49958

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 aacccgagcc ttgtccactc tcagaggatc cgggctatct ggtcttgcca tgagggtgctc 120
 atgggcgcca tcaagggtta ccgcgtctcc tatattcttg tcgactagta cattcatctt 180
 actatgcgct cttctcagga cttgaatggt agacttactg tttattttta aggagaagaa 240
 tgaattgatg ctgttgggct gacaaggga ttgttccaat catttttact agtcattttt 300
 ttcaaaattg ccctttttt 319

<210> 49959
 <211> 273
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-039-Q1-K1-D1

 <400> 49959

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ggcacagagg tgcgacgtac gacgagtacg actcatgcgc cacacatggc atcccagctc 120
tccgccgccc tgccccgggt ccacggcctc cggggctacg ccgcgcccag gtccgcggtg 180
gcagcgctgc cgtccgtgag ggtgggcagg aagaggctcg cgtcgcacgg catccgctgc 240
gactacatct gctccgtcac caacctgac atg 273

<210> 49960
<211> 294
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-039-Q1-K1-D11

<400> 49960

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tgctcggcct cgtcgcgctc gccttcacgg attgcgtcac cggcgccaccg ttcacaaacg 120
cgtataggcg gttcagtcca agccagtgc tatatatctt ggaagttgga actgtgtatg 180
ctagtcagct atagcggcac catgcccgtg gtacgagcct agctacagtt ggacgagcta 240
ctttttattg ggatttacta gtcttgggcc atttacttct cttcttatta aaaa 294

<210> 49961
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-039-Q1-K1-D9

<400> 49961

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gatggcgctc gtcgacgcgc gcttgagaga gagtgcctcc tgcacccgcg tcacccccga 120
cttcacaaa ccagggatca tgtaccagga catcacgaca ctgctgctcg accccaaagc 180
gttccgtgac accatcgacg tcttcgttga gcggtacaag gaccaaagga tcaccgtagt 240
tgctggtgtg gaagctagag ggttcatttt tggctcctct atcgtcttag ccatcagtgc 300
gaaatttgta cctttgagga agcctaaaaa atttccaggc gaggaaatct ccgaaaaata 360
ttctcttgaa tacggaactg acaagataaa tatgcatttt ggagctttac 410

<210> 49962
 <211> 261
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-039-Q1-K1-E9

 <400> 49962

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 caccttccgc agccatggca tcagtaacgt tccgggcgtt cgcgccgagc gagggataat 120
 cacctgacgg caggacaact attcctcgta cgaccgtacc gagctcacca agcctatgta 180
 cgtcttcgtc cggggcaagg tctacgacgt caccttcggc cgtggcttct acggccccgg 240
 cggcgcctac gccgtcttcg c 261

<210> 49963
 <211> 208
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-039-Q1-K1-F10

 <400> 49963

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 ttgcaccaca aggtcgagga tgtgtggcag ctgcggatca agctgcggct gctgctcaag 120
 ctgcaagtgc ggcaagaagt accctgacct ggaggagacg agcacogacg cgcaagccac 180
 cgtcgtcctc ggcgttgccc cggagaag 208

<210> 49964
 <211> 356
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-039-Q1-K1-F5

 <400> 49964

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 cttatagtgg cacagttatg tgtgtaacta ccgatcgtgg aacggcctaa tgtatttcgg 180
 ttgcctcaga tcgatctata tgtgcgtata cattatgtac tgaaaagtgt gtagcgtctg 240

gttaatgtat gagcagtgtg tatgtgaccg ggacccgggtg tgtagttgct attactacca 300
tatccggtga atgatcaaac cttttggtgt attaaaacta gatgttcac ccaaaa 356

<210> 49965
<211> 225
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-039-Q1-K1-G10

<400> 49965

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aacgactgac tgatttgtct tagcacaaaa ctctggatat agctagaaac cacgatagat 120
ggcctactga agtgcagggtt tccaagacga gccattggac ccatggcaaa cggtgacgac 180
gaactaggat gtgacatctc tccatgaact cacgccatcg aaaaa 225

<210> 49966
<211> 242
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-039-Q1-K1-G12

<400> 49966

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gagcggatcc accggagcaa cttggtggcg gtggggatca ttctgtctg ctttcaagca 120
agagaggatg ccgattcact cggcctcacc agacgtgagc gctacaccat ccaccttcct 180
accagcaccg gcgagatcag tcctggtcag gacgtgaccg tcacgaccca cgactgaaga 240
tc 242

<210> 49967
<211> 308
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-039-Q1-K1-G2

<400> 49967

cccggtcga cgcacgcgtc cgcggacgcg tgggcccagc ctactcgact ccttgtgagc 60

tgtccgcaag aatcttcacg gaggggtcta tagcatggag agcgtcgagg gcgacagcaa 120
 gtcggccagc accgtccggc tctcaagta caccgaggcg gtgccgatgc tgacgttcgc 180
 caaggagaag cttgagacgg cggacgacga gaacaagggtg gcgtcgtaca gcgcggtgga 240
 cggcatagct ggcggatttc tacaagaact tcaagatcac gctgaagggtg actcctgcta 300
 aggctgac 308

<210> 49968
 <211> 281
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-039-Q1-K1-G7

<400> 49968
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 ccacagcatg caccaccatc acgtaggggg gcgacactcc tgtggttatg ccgcacctgc 120
 ccgttcacgg ccaactccgtg ccgcctgtca ccaagccgcc gcccgtagac gttcctgagc 180
 acaaaccggc gccggtgccc gtgccggacc acaagcctcc gtcgacaccg tctgtcgacg 240
 ctcttgagca cataccggca cctgtgcccc agccagagca c 281

<210> 49969
 <211> 328
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-039-Q1-K1-H2

<400> 49969
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 caggctggtg caggcattgt tgccgacagt agcgcggatg acgaacaacg tgaatgcgag 120
 aataaggctg ctgcactagc tcgggccatc gatcttgacg agtcagcttt tgtagacaaa 180
 gaatagtgtg ctatggttat cgttttagttc ttgttcatgt ttcttttacc cactttccgt 240
 taaaaaaaga tgtcattagt ggggtggagaa aagcaataag actgttctct agagaaccga 300
 agaaatatgg aaattgaggt tatggctt 328

<210> 49970
<211> 336
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-039-Q1-K1-H3

<400> 49970

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ttacataaga ctcataacaa gagtagaaat tattacgaaa acgggggtaa cgtgtgcttc 120
gacaactttg gtgacaaggt gaagaattgg ttgaccttta atgagcccta tacatttact 180
tcattttcct atggaaccac tgtctcatgc cccatgacga tgctcacctg tactagactg 240
taccatctca actgataatt cactcgtcta accttacatt gctgaccaca acattcttct 300
agcccacgct taggctgttg atctttacta caagta 336

<210> 49971
<211> 346
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-039-Q1-K1-H4

<400> 49971

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aggccaacta cgctgcagc tactagctag gcctcgcgca tcatcagcgt ataacgtacg 120
cacgcaatgt tcgttatata attccatacg tatatgggtg tgcaagggtc agaccgacca 180
gctgtatgtc ttcacgttg cttcgtttc tgcgtcgtcc tcccatgcat gtttatgcat 240
gatgccgtgc cgtctcgttg tcagctggtt cagtagtgat gcttactttc ttgtcgttgt 300
tgctaatagta agaaataaga cgatgcgttg actgcttaaa caaaaa 346

<210> 49972
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-040-Q1-K1-A1

<400> 49972

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ctgttgagaga agacaatgaa aattgcggtt gagggtttgg tcgacatctt tcttagtggt 120
 tttcatgaga ataagaccaa cgattttaga ttgctggatg cgaatgggtt ttgacaactg 180
 atgcctgagc ttgagtattt tgagactgta ctgcacacgt acttctcacc tgaggcgcaa 240
 caggctatga aatctttaca agagaattag ttggaaaagg cctgtgaatg tgttgagcaa 300
 gccatggaaa atcctggaca ccaacttcga ccaaccctgg gcagtgaaga tacagcatcg 360
 gatgacagac agccattcat atcacctgtt gatttgcttg ggctt 405

<210> 49973

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-040-Q1-K1-A7

<400> 49973

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 catgagatga gcacgctaga tgtacatgat cgtcgtcgca agtgctctgc gtgcgagcat 120
 gatcaaccat atgaactata actaggcgcg cagtttgctg tcaactaaca atccacctat 180
 agcagctata cttcagggtcc acgttcatca acatataatg gcacagaggt tgaggagcct 240
 gacgacaaag atatctacgt aaactattac atcgaccata gctgcttcaa caccgatat 300
 gcatgcctga cgagaactta catccaaatg ctagcgcatg gctaggaatc atcatcttga 360
 gca 363

<210> 49974

<211> 521

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-040-Q1-K1-A9

<400> 49974

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 tgcagatctc tgttctcccc ctgcagacaa tgcacaaagg aagagggaat cttataggtc 120
 tgctctgcat gactcgcgca ataaatttcc aaggatgcaa tcacaatccc aaggcatagg 180
 aagtgtgca gggaacgccc taattccacc gcagcttcgt ggaaggagca atgttggttac 240

cgaagacatg agcaaactct ttgtggctaa acgaaaagag tagcatctta accttttctg 300
gacctgaacc tctgtttgga ctccatagac tgataaacgc atgtactgag tgcaatggat 360
gtgccggcat gatccaaggt tgttgctgaa tcctaaagaa ccggacgaag gatgctaacg 420
gtaggacaac ctgggtctctt agcctaccgt gggctgttgt cagatgtcaa aaatgccttc 480
ttagaaattt agaacatttc tttggtgctc actcgcgttt c 521

<210> 49975
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-040-Q1-K1-B11

<400> 49975

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cattgctccc atctctcagc catctacgaa gaacataggt ccatgttgta acttcagctg 120
ggcttcttat ggcaatggat acatggctgg aaacttttagc gacagtgatg aagattatgt 180
taattctact gtgctagaag cagttgatgt gagaagtgga tcggaaggat atgtgataaa 240
gatgcgagat gggaaaaact tgcgttgtgt ccataacaat totcaaggga gaaatattcc 300
agagagtgca ccctaacctg taattgtttt gaggattgaa gatggaagcg aaactttaac 360
ttccaatcat tgttttgag attccaagt tacttctgat ggctgctatt cgtaatgtcc 420
acatttcacg accaaccata tatcaagt 448

<210> 49976
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-040-Q1-K1-B12

<400> 49976

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cagtctatcg aggcaccgaa aacgaacaac tgggacggcg tcttgggaaa ctgagatcgg 120
gcctatgggt gcaacgagtt gaatcatata gaagaagtgc aagggtatg acctatggga 180
gtttgcttgc cttttgattc atcaaaaata agattgcggc cagataccgc ctttggtggc 240

aacttagggg aagctgtgaa gaagaaactg ctgggcctct cttgcttttc gcagctttgc 300
 cttgatgtac ctgcgagggc catggcccat gacagtggta ggtttttctt taatcgcaac 360
 tgtaagggtt ggtgaagaac ggtttcacag tgcactgata tatatgtagc tgcttgc 417

<210> 49977

<211> 341

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-040-Q1-K1-B7

<400> 49977

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 ggttttttga ctgacaataa acccagcgat ccttcatgcg attagaaaga ccagggccaa 180
 gactctaggt tttgatgggc gtcagagcaa ttacgtgag atggaccatg tgaggcagga 240
 actggtccat gcgaatcaaa tctttgctca gaatccatcg tggccagtca ttgcggtcac 300
 tggaaaagct atcgaggtaa caactgctgt catcttgggg a 341

<210> 49978

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-040-Q1-K1-B9

<400> 49978

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 gaaggagttc agctacagca agatcctcaa agatctcaag aaagagttct gctgcaatgg 180
 tacagtggtc caggaccag aacttgaca ggtcattcag ctccagggtg atcagaggaa 240
 gaacgtctcg aatttcctcg tccaggccgg cattgtgaag aaggagcaca tcaagattca 300
 tggtttctga gcaaccgct tgtccatagc aaaccaaccc tgcattgatg gccagcttat 360
 tatattttaa tatctgaggt gtatcatatc tatctggctt tg 402

<210> 49979
 <211> 285
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-040-Q1-K1-C10

 <400> 49979

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 aaccgattcg gaggtagatg cagcgcagcg tagactctgg atctgttcca agcgggtggag 120
 gaataaataa ttccggagcga gaggcggggg cttttctgca aattttgtaa aatggagttt 180
 tacgtatccc tctttcgtca attctcgcg cgaatatttta gcagtagcag tagtctttag 240
 gaacccagtc gggatcagta cctgggttgcg tttggactcg aatgc 285

<210> 49980
 <211> 272
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-040-Q1-K1-C5

 <400> 49980

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 gatgagctca gtgtgatcac actaagatgg aatgacaaga gaactagtca tcactccgtt 120
 ggaagtatgt atatttggcc agagggcggt ctaagtcac gaatagttga ctcttgaggg 180
 tatatacgct tacatacctg ctatcgcttc aactatgctt atagccacca tggctgcagc 240
 aacgacgac actgacgcta ccagtatccg tc 272

<210> 49981
 <211> 150
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-040-Q1-K1-D3

 <400> 49981

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 gagggccgcc ctgaggggggt attttttagga ccatgaaata ccatgtgtat ataaggatta 120
 ctacaaagag tacaaatctt aatattttta 150

<210> 49982
<211> 299
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-040-Q1-K1-D5

<400> 49982

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cgaacggatc atggcaggtt aggggtagac cagatgataa gaaaccctg gttagaaatc 120
acatccaaaa caacaccggg tactcaatac caaacatagt acctatgac agtagcccca 180
ctgggagttg cagagatggt gaagatgtaa gtgtgaacca agaagggtgt ggtattcagg 240
ttgatatata attgaaccaa tattttgaca gttttgcgca taactttggt caaacatac 299

<210> 49983
<211> 404
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-040-Q1-K1-D7

<400> 49983

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accggacccg ctatgtgaag cggagggaga accaatctta ccagagatga tgtctccgtt 240
tctggagatg gaaaatgccg gggtttccac aggtgtgccg tactggagat gcaggagcaa 300
ccccactac ccacatgaga atgacatccg ttgtgtttgc tgcgctttct aagcttgaca 360
agttgacatt gcttatgcgt ttgggcttgt acctctagtt gata 404

<210> 49984
<211> 366
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-040-Q1-K1-E10

<400> 49984

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 gcctgccctg gctgggactg ccgataaaga tggcagcagg agtcaaggcg cagtggccag 180
 tgggccagta acggtaaagt cgtgcggtcg ggactgcgcc attaaagggtg ggtcctgcac 240
 gctcgctctg cagaattgat taaccgggcg tgctgtaaca gtatgggctt atccgagtat 300
 agtgactact ggtagtgaca gtggtgtgtg aaaaactgat aactctggtg tttctacttg 360
 cttgac 366

<210> 49985
 <211> 365
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-040-Q1-K1-E12

<400> 49985

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 tcaggacgac tcaattacac ccgatactgg tccgtctagg atggcatgat gctggtacgt 180
 atgacaagaa tattgaggag tggccacaac gaggtggagc taatggaagt ttaagatttg 240
 atgttgagtt gaaacatgga gccaatgctg gtctgataaa tgctctaaag cttatccaac 300
 caatcaagga caagtaccct agtatcactt atgcagatct atttcagttg gcaagtgcta 360
 cagca 365

<210> 49986
 <211> 412
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-040-Q1-K1-F9

<400> 49986

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gcggtggagg gtacacctgc aggtcccggt cgcgccgcgc catgggctcc gcgccgtcgt 240
 cgtcccaatc cccgtcgctg cacacgcctt caggacaaac ccaagggaaa gcagattata 300
 aatcactgag tgaagaggag tggaagaagc gcctgactga agagcagtat tatgttactc 360
 ggcagaaggg cactgaaaga gcattcactg gggaatactg gaatactaaa ac 412

<210> 49987
 <211> 301
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-040-Q1-K1-G10

<400> 49987

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 atcaagccag ttgtccttac tggcaagctc cattacaatt tctttgccag ttctgctctg 120
 ggttggtgta tctaataatg tgctggtctt gcatcttacc ccattgatac cgtccgcaga 180
 aggatgatga tgacatctgg tgaggctgtc aagtacaaga gtccttggga tgcgttccag 240
 cagattctta agaaggaagg gcccaagtcc ctgttcaagg ttgcttgtgc taacattctt 300
 c 301

<210> 49988
 <211> 294
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-040-Q1-K1-G11

<400> 49988

cgggtccgtga ttccccgggtc tgcccacgcg tccgcccacg cgtccgtgca gactacgttc 60
 ttggcggttg atagtttccc gctggcgatt gtctgcctgt cagttcatgt acgtatgtat 120
 gtgtgtatgc tactctgcgg tggctaatac tttttctgat gcctctgtcg ttgtgtgttc 180
 atcaccgtcg tgtgcgattg ttctttgggt tgtctttgcc tcaataaaac tgcttcattc 240
 tccagtattc tatagatgag tgctatgtac tctgtacaac atagaacaga gtac 294

<210> 49989
 <211> 298

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-040-Q1-K1-G12

 <400> 49989

 attccccgggt ctgcccactc ttacacccac tegtgcgctc acactacgta catcccttta 60
 gcctgcgaca cccttcctat ctacctccga ccacttcaaa cagcaagta acaatccaca 120
 ttaacgtcta caccactaat gctcctcaac aacccctgct acttgaccga caatcatcac 180
 tccagcaaga tctagacttc tgccgctacc ccatacgagc tacagctcca ccttgagct 240
 gcctacacct caatccactc tacctactac ttccaacctt acttctccat ttccaccc 298

<210> 49990
 <211> 349
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-040-Q1-K1-G5

 <400> 49990

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 cgacatcgcc acgcagatcc ggacggcctc ctgcaggatc ctctgtcgcc aaacactaag 120
 ctgcctgcct gctgtgccgc tgctgtgct gaagaacacc atcccactat tatatatata 180
 atataatgat gatcttggtt ccagagtgat gcttgtctat attgttcac actcatcgct 240
 accatctgct aggatggcta tctttatgct tggggattgg agaaaacctt atctaacctt 300
 ttagggaacc ggtaatatat atataatgca gcatgagttt gcagtaaaa 349

<210> 49991
 <211> 483
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-040-Q1-K1-G9

 <400> 49991

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 ccacgcgcgc cgctgcgcgc tcgcagctcg acgctcaccg ctcgctccatt tctgaacaga 120

ctgagaaggc tttcctcaag cagccaaagg ttttctcag ctcaaagaa tccggcaaag 180
gtaagaagcc tggcaagggc ggcaaccgat tctggaagag cattggcctt ggcttcaaga 240
ctcccaggga agcaattgaa gggacctaca ttgacaagaa atgcccattc actggaactg 300
tttctatcag aggcagaatt attgctggga catgccacag tgctaagatg aacagaacta 360
tcattgttcg caggaactac cttcactntg taaagaaata ccagaggtat gagaagaggc 420
actccaacat tcctgctcac atcttcccat gcttccgtgt gaaggaaggt gaccatgtca 480
tca 483

<210> 49992
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-040-Q1-K1-H10

<400> 49992

tccggtctgg aattcccggg tcggccgcgc ttacgccac gcgtccggga aagaaagaac 60
aggggcaggc gaagcgactg tcgcgaggca aggccatggt ccgccatgac gctctccctc 120
tccacctctt tcctctccat ccccgccgcc gcgaggacca ccgcccgcac cctacgctcc 180
gtcgtccctt ccaggggat gcgctgctcg atgcgcaaga aggggttgca cccggagatc 240
tacgaggacg cgaagggtga ctgcaacggc gagctggtgc tggtgacggg gggcacaaag 300
ccggagtaca cggtaggacgt gtggtccgga aaccacccct actatgtctg cgacaccttg 360
gcgctcgtgg tcatggacag ccagatcgag 390

<210> 49993
<211> 484
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-040-Q1-K1-H11

<400> 49993

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ttcgtccaaa taatcttctt cctgtcggtt tgctcccaga attcttatca atcgttcggt 120
ccatcggtca tcgttcgac atagttccta tccatccttc atcgttcatt cataccaact 180

attcaccatc actatattacc cttactatatt accgctacta tttaccgcta ctttttacct 240
 atactttcta ccgttacttt ttaccgttac tatttaccgt tactatattac cgttactttt 300
 tacctttact ttttaccggt actatattacc gttacttttt accgttactt tttactgtta 360
 ctattttaccg ttactcttta ccgttacttt ttaccgtatt ttttaccggt actatattacc 420
 tttacttttt acctttcctt tttatctttt ctatttttacc tataacttttt aactctactt 480
 ttta 484

<210> 49994
 <211> 440
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-040-Q1-K1-H12

<400> 49994
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 gttttgtaca tgatgaagtg ctatccgggt gtgccggagc agacgttgag ggctcatctg 180
 ggttcgtttg gtgtttcggg aagccttgac ctccaatcta tgtacaacttt atcaggtggg 240
 cagaagagta gggttgcatt cgcgaaaata accttgaaga tgccgcacat cattctcctt 300
 gacgagcctt ctaaccatct cgatctggac gctgctgagg cgctcataca ggggtctactc 360
 atttttcatg aaggtgtgct gatgggtgagt cacgatgagc atcttatgac tggaagcgtg 420
 gacgagctta gcgttggtgt 440

<210> 49995
 <211> 264
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-040-Q1-K1-H2

<400> 49995
 cggaattccc ggctcgacgc acgcgtccgc cggatcaccg ggttacacct gctgattcac 60
 gttcaggagc tatcacagct agcggcgact ctttttcaga tgatatcatc ttttacacca 120
 tctacaagt actactgtag ctccagcatg atctgctgc agctcatgca actgcatgag 180

ccctaacctg gagaccgtcg tcgtcagcaa catcaaaacc actgtcctcg ccgcgccgac 240
 caccaaggcc agctccctct gttt 264

<210> 49996
 <211> 186
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-045-Q1-K1-A9
 <400> 49996

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 cggatgcaag aatctgagga agcttgagat tattgacagt ccatttggtg attttgcact 120
 cttgggaaat gttgccaaat atgacacaat gcgatccctt tggatgtcat catgcaatgt 180
 cacatt 186

<210> 49997
 <211> 338
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-045-Q1-K1-B7
 <400> 49997

gttcgtcgac aagtacggcg cgaacgtcga cggatacagc ccaatctaca acgaggatga 60
 ctggtctccc accggcgacg tctacgtcgg tggaaccact gggcttctga tctgggccgt 120
 caccctcgct gggatectcg gcggcggcgc cctcctcgtc tacaacacca gcgccctctc 180
 cggctaagga tatccaatgc atgcgcttct tgcgattcgt catgtaaaat cagggtgtct 240
 gtctataatc tagcctccat ggatgtctcaa ccttcgtcat gtaacaataa tcagtgtctac 300
 tcttcattac ataattttga tgctatatat atataaaa 338

<210> 49998
 <211> 488
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-045-Q1-K1-B8
 <400> 49998

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 caccaataat ggccggcggtg aactccagcg tcgtgggggt caagcccgcc gcggcagtgc 120
 cgcaggccgc cgccgtctca tcgccggcga agcgggtgca gctggccgcg cccgagggcc 180
 gtgcgcgcga tctgctcggc ctggcgcccg tcttcgtcgt caccggccacc accgggtcgg 240
 ccaaggccac gatcttcgat gactacctcg agaagagcaa ggccaacaag gagctgaacg 300
 acaagaagag gctggccacc agtggagcca actttgcgcg cgcctacacc gtggagttcg 360
 gcagctgccg gttcccctac aacttcactg ggtgccagga cctctccaag cgaagaaagt 420
 ccccttcacg agcgactacc tcgagaatga gtgcaagggg aaagagaagt tcaagtgcgg 480
 ttccaacg 488

<210> 49999
 <211> 208
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-045-Q1-K1-C11

<400> 49999

ctcggaattcc cgggtcgtcc cactcgtcct cagcctcacc gaactctacc tgcctttctc 60
 tcttccctgg ctgcatctgc aggatctcgg attatacttc caggactggg taaccatattg 120
 aaccagcac agaccatgca cgtctacatc atctatctga cacactcatg tacgacgtac 180
 ctctcacatt tgattgtcat actaacga 208

<210> 50000
 <211> 390
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-045-Q1-K1-C8

<400> 50000

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 gaccgcaagc cgccggagcg cttcaggcgc agggaggata ggctgctgg tggacaagga 120
 ggcccccgcc ctggctcctgg tgctgctgct acagctccat ctccagcacc ggttgctgct 180
 cgcccatagg ctttagcttt tcgaccgtgt taagtcttct gcccaactcag tttcggagtt 240

gtcccctgtg cgtgtgtgaa gctgctatat tagagttact ttttgtctaa agtctgaaca 300
 ttttcgaaga atttgaatat ctgaacattt gaatgtttgt gctgagtttt tcaaagaatt 360
 tgaatatctg aacaattgaa tatttcaaaa 390

<210> 50001
 <211> 280
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-045-Q1-K1-C9
 <400> 50001

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 tacagctcta gtggaggagg aggaggggac tattggaact gtacttggtg aaaggtgatg 120
 gatgccaggg agtacttgta caggaagagg aagagagact cgtgtgattg tagtagaata 180
 gaatggaatg gaacgtaatg gattgcatgt gcaactgtaa gcagctgcaa actgcaatac 240
 ttgcagtgga gtgatggaca actcaattta taagcaacct 280

<210> 50002
 <211> 367
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-045-Q1-K1-D1
 <400> 50002

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 ataatggcaa gcgtgaaatt gaacggtggt tcagagaagg cgagctgtgc caaaatggga 120
 atcagttcaa gcaccgtggc ttatagaata actcttgcta atcatttcca gagttgtatt 180
 caatgtttta ttttgtgttc gtcttgattc aaggagccat gcaagagtgt atgagtttag 240
 ttcggctaag taattagctc atgagggcctt gaattatcgg ttctttttga ggattgatga 300
 tttgtgcaac tgaaaccttt gatcaattgc tcaatgtgag aagctaattt cttgtcaaaa 360
 aaaatta 367

<210> 50003
 <211> 254
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-045-Q1-K1-D10

<400> 50003

ttccccgggtc gacccactcg tccgcccacg cgtccggacg accactccct ccataacgcc 60

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tcccgcggct tcggcttcga cacctttctcc actgtggacg cgatgctgaa ctccatcgag 180

ggcatgaact gcaaggagct gaacagccgc aacatcacgc tcaactaggc ccagtccccg 240

agcggccgtg gagg 254

<210> 50004

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-045-Q1-K1-D3

<400> 50004

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tgtgccgttc ctgatgaagg caggcggggc gctgcacaca cgacgcgcgg agatccgggt 120

gcagttccgg cgcgtgccgg gaaacctgta cgggcggaac atcggcgcgg acctggacaa 180

ggcgaccaac gagctggtgc tccgggtgca gcccgacgag gccatctacc tcaagggtcaa 240

caacaaggty cccgggctgg gcatgcgcct cgaccgcagc aaccttaacc tgctctactc 300

cgagcgctac cgtcgcgaga tccccgacgc gtacgagcgc cttctgctgg acgccatgga 360

gggcgagcgc cgctctttca ttcggagcga cgagctttac cccgcctggg 410

<210> 50005

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-045-Q1-K1-D6

<400> 50005

ttttggtagg gaatatatcg agtacttatt tgtagtgagt tgaacagcgc aacacatgtc 60

catagtccat acataattgg cagataacaa ggaattacat gatagatcca aaccttcatg 120

gtcttctgga agccatgagg atcttttttac acagcaacaa acccacaat caccaaagca 180
 gtcttttcgca gcaccaagtc tataatggcg taaaatcca cagtagtagg cgagtccatg 240
 atgcgtagacc ccacgcgtcc gcaggaagct tgggaagtaa tgctggagca gttcaaggct 300
 gaggcctcgc ggatgcaggc cctgtcaatg caggcatatg atgtc 345

<210> 50006

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-045-Q1-K1-D9

<400> 50006

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 ttgctttgcc catgggaaat atgggaatgg caaaccattc cctgtgaacc taagtcttgc 120
 cgatggtctt aacggctggc ttccatgtgc caggacctcg tagaacagaa ttgaagcctc 180
 accagagtgt tcacaaaagg cttcatcaat acctatttcg ctctgtcatg gaaaagctga 240
 tgatgtggtt gcctacaagc acggcgagag atctgctggt gccttgaaag caaatggctt 300
 ttccaatgtg ctcttcaagt catacaatag tcttgggcac tacactgttc cagaagagat 360
 ggatgaagtt tgcaaatgga tcacagcaaa ttaggcgctc ggcacttact catcttgatt 420
 ggaaaat 427

<210> 50007

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-045-Q1-K1-E1

<400> 50007

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 actccaagga tgaccctgcc aaggaggcgt gctagcttca cgtcccaggg catcatcatg 120
 aaccaccctg ggcagattgg caacggctat gcccagtgcc tggactgcca cacctcgcac 180
 attgctgtca agtttgcgga gctcattacc aagattgata ggcggtctgg caaagagctt 240
 gagaaggagc ccaaattcct caagaatggt gatgctggtg tggatgaagat tgttcccact 300

aagcccatgg tcgtggagac cttttctgaa tatcctcctt ttggtcgctt ttctgtcctt 360
 tacattatgc aaactgttgc tgtcggagtc atcaat 396

<210> 50008
 <211> 351
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-045-Q1-K1-E2

<400> 50008

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 gcaagaccat cactcttgac gtggaggctt cagataccag ggacaatgtc aaggccaaga 120
 tccaggacaa ggagggcatc ccgccggacc agcaacgtct tatctttgcc ggcaagcagc 180
 tggatgatgg acgcaccctt gcggattaca acattcataa ggagagcacc ctacacctgg 240
 tgctgcgcct caagggagga atgcagatct tcgcgaagac attgactggc aagaccatta 300
 ccttggaggt tgagagctcc gacaccattg ataatgtgaa tgccaagatc c 351

<210> 50009
 <211> 431
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-045-Q1-K1-E3

<400> 50009

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 gccgtggcgg tggccgcgcc ctgcgcgccg gggggcttcg gcgtgatcag gtcgggcaag 120
 gtcgaccgct gccaggagcc cgccacgcta gcagcaaccg aggccaggcc cgccgccgac 180
 ggacgccgcg ccgtcatgct cgcggctgct gcggcgcccg tggcagccat cggcggcgcc 240
 ggcgccgcca tggcggggcc caagaacggg acccccagag cgaagaagaa gtacgcgggc 300
 atctgcgtca ccatgcccac cggcaaggct tgccacaact gagcacgcc gcgttgcatc 360
 tgcattggccg gggggtggta tataattaat gtacgtgcc cggagttggg ggccctattg 420
 ttggttcgag c 431

<210> 50010

<211> 395
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-045-Q1-K1-E4

 <400> 50010

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 cccactgag atcaacggcg tgccgtcgga aatcctcgag ccgatcaaca cctggacgga 180
 caaggccgcg tacaaggaga atctcctgag gtcggcggg ctcttcaaga agaacttca 240
 ggtgttcgcc agctacaaga tcggggacga cagcagcctg actgacgaga tcctcggcgc 300
 aggccccaac ttctgaacta aagcaatgga tccggatgaa taaaacgatg gcgtgcggtgc 360
 gtgggtgcgt gtgaagatga ttacgacgac gacga 395

<210> 50011
 <211> 309
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-045-Q1-K1-F10

 <400> 50011

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 ctgggcgcaa ggtgcctgaa cgacgcagct gcctgcctca aacgacatca cagccaccac 180
 ccgaaatcgt ttcgaaactt tgaggtggat ctgcacacgt gctcaaactg gccatgtgtt 240
 tttttgtcag aacaagccgt tcatttgatt gggtattaaa agattttggg cagtctgttc 300
 ttagaaaaa 309

<210> 50012
 <211> 470
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-045-Q1-K1-G12

 <400> 50012

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 attcaagcaa accacaagag aatttcacaa cttttgcatg agtctctgat gttagtgaca 180
 tctttgaacc ctaaaattgg ctatgacaat gctgcagctg ttgctaagaa agcccacaaa 240
 gaaggaacca cggtgaagga ggctgcatta gaccttggag tattaacgga gcaagaattc 300
 catgagcttg tcgttccaga gaaaatgatt ggtccttctg attgataacc ccatgttcac 360
 tatgtttctt tgaagcattc aggttgccac atccacgagt tctgggtggcc ctgtgtttcc 420
 aagttaatga ttctagcgca tccataaata aagcaaataa tttttcatat 470

<210> 50013
 <211> 414
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-045-Q1-K1-G2

<400> 50013

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 cgtcgcatca ggtccgatcc cctcgagtgc gccggcggcg ccaccaacca gcaagctgcc 120
 agagttccag atcgggtcttg gaacaattgt tgtccagtct agtaatcttc tttcacctca 180
 ggaggcacia cttgatggca atgtagtcac agatttgcca agtgatccta tattgcacia 240
 catgagaact cgaaggggttc aagctgccag catgggcata tcagaatcaa gacaaaagca 300
 agtctacctt attttactga taaacaaagg cagagttgtg gccaaaggga agttagtgc 360
 tacagatagc caaagagata tattaggagc aaagcttggg ccataatatt gtgg 414

<210> 50014
 <211> 453
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-045-Q1-K1-G8

<400> 50014

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 tggttcgggag ttgacctga cgagcaccac atcagaaagg agtttgaaag gtttaagccta 120

atgcatgaga agttaaataca atttgagaac tgggacaaag caccacttcg cccttctact 180
 aactaaata cacaagcagc agcaagggtc attggacact cactttccca tctgacatct 240
 gatcagaaga ggagcatgca tgaaataagt agaggagaaa ggcggagttg gtctgggcag 300
 aagagaaagc ctgaaccttc aatagaaaag aagtctgttc gtgctgctgc agaagagttc 360
 cttgcaaagg cttctcaaga acttattgga catagtgatt gcaagggtcaa gggttctgtt 420
 atactaattt ctgatgaaga tgaagactag atc 453

<210> 50015
 <211> 352
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-045-Q1-K1-H10

<400> 50015

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 ggaaacttgg aagttccatt acttgtctgt agtctatact ttatctagat gcgaagaagc 180
 ttgagataca cattgactac aatgtctttt gatgaataat accagacagc accgaaccga 240
 actcgtccta cacacggtag ctttgccatc taggtagttc tgctcgtgggtg gagatggctg 300
 tgctgcctat aagtctaagg ctaatggcat ggatgacatt tatacaagct ct 352

<210> 50016
 <211> 234
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-045-Q1-K1-H12

<400> 50016

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 caatgacctt gtcgtcaagt tctcgaaggc tctttccaag actgcggctc caatgaactt 120
 gctcacgcct gaaaaccctg atccattcat ttctgttcac cagctatgt acgtatgtgt 180
 agcatatggg ttacatctac ctgttataac cccgagagct ggagaaacta gcta 234

<210> 50017

<211> 280
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-045-Q1-K1-H5

 <400> 50017

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 gggtcccacc aggacgttgc cgagtgcacg gccatgatct gcaggttcga cctcgacggc 120
 gacggcgtgc tcagcttcga ggaattcagg gtcatgatgg atgcatagct aacggattgt 180
 gttgtgtgaa tacgtgtgat tatttacttg ctgcttgttt ttgcctgtcg tccgaattca 240
 aacgtcaatt aattactact agtttgtttc tgtgtcaaaa 280

<210> 50018
 <211> 248
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-045-Q1-K1-H6

 <400> 50018

 cggttacacg cgatcatgct accagcttca aaactaaacg aacacaggac gacacaaaca 60
 tgtttcgaac attacagaca aacttaaagg atcaccacga caggcaactt gatcaactaa 120
 acgatgcata tatectactt aacagtattg cagtacata gatgcagagg atagcataag 180
 aggtcagcaa ggtgccatca gtgaggaaac tactggggaa ttaaacacaa agccatagct 240
 agatctac 248

<210> 50019
 <211> 476
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-046-Q1-K1-A8

 <400> 50019

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 tgtccagtgc gcgcgtcagg cgtgcttagc tagccgccat ggcttccttc gccgccgtct 120
 ccgatgaagcc cgtggccatc aagggtctcg ccggcagctc catctccgga aggaagctcg 180

ccgtcgccag gccgtcggcc cgctccatcc gcaggccccg cgcagccgcc gtggtggcca 240
 agtacggcga caagagcgtc tactttgacc tcgacgacat cggcaacacc accggacagt 300
 gggacctcta cggtcttgac gcgccctcgc cctacaaccc gctacagagc aagttcttcg 360
 agacgttcgc ggctcgttc accaagagag gtctgctgct caagttcctg ctgctgggcg 420
 gcggctcact tctggcctac gtcagcgcgt cggcgtcacc ggaccttctg ccgata 476

<210> 50020
 <211> 191
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-046-Q1-K1-A9

<400> 50020

attccccggg cgactccact cgtccgcca ctcgtccggg ggatgatgga tgtgatgaac 60
 ggatgcaaga atctgaggaa gctggagatt atagacagtc catttggtga ttttgacttc 120
 ttgggaaatg ttgccaaata tgacacaatg cgatccccctt ggatgtcatt atgcaatgtc 180
 aaattaaagg g 191

<210> 50021
 <211> 165
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-046-Q1-K1-B11

<400> 50021

attcctgggt cgaccactc gttcgctgat gtctaggaca ataagcagaa ggctttatgc 60
 attgagaatt acagaaagaa atatggggat ttgctgtaca ctttatctga tattgatgtt 120
 taaaaggaaa aagaatgtgg gattttcatt gaaatgaaca acaaa 165

<210> 50022
 <211> 390
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-046-Q1-K1-B12

<400> 50022

gaattcccggt gtcgaaccac tcgtcctcgc agtagtcccc tcacgtttctc ttactttctct 60
 agcgccgtct cccaccagac tagatggccc cgtagaaggt caaggccctt ccttcgtagt 120
 ctaatccggc caagtccggt ggtggcaagc taaagaagaa gaagtggagc aagggaaagc 180
 taaaggagaa tgtaaacaac gcggtgctgt tcgaccaggc tacctactac aagctgctct 240
 cggaggtgcc caagtacaat catatgacct cttctatcct cttctagcgt ctgatgatca 300
 acggctccct tgctcggagg gccatcaagg tcttgatggc gcgtggcctc attctgatgg 360
 tctcgggtcca ctcaagccat cagatctaca 390

<210> 50023
 <211> 475
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-046-Q1-K1-B8
 <400> 50023

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 ttttattcct gaagcatggg ctggtgctgg gcggccatta catcaccacg cctgaacgtg 120
 ttccaggcct acaagctgaa gcggataagg gaccccaact gcaaggcgac gcccagtcg 180
 ccgctgtcca aggagtctgc cgacgagaac aagcccgtca gactgggtcaa gctgaaccgc 240
 gcgagcgagt accctgacgg cctggaagac acgctcatcc tcaccatgaa aggcacgcgc 300
 tgctgcatgc agaactctgg ctaggcagct tatcttcact cacctgcaga gtgcaccgca 360
 ataatcagct ttccgatggg ggcgttttgt cagttttgga tggaaatgcc gaactggcaa 420
 cgtctgtttt ccctatgcat atggaatttc ctgcctcttt atattcactc tttgt 475

<210> 50024
 <211> 476
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-046-Q1-K1-C12
 <400> 50024

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 tggccagcgg cacgtcaaag aagggtcga agaggaagac acacaagggt ctttcctact 120

agctcgctcct tagttctttt gagtcctttg gttgttcgat gcctttctact gattcatgtc 180
tcgttcgggtt atgtgtgtca tctactcgtca tggcgtcggg gaagcgggtt cgagtgcacg 240
ggaaggacaa gatcgtgcgg cgggtgcgccg ggaagcaaca cttgctcgcc aagaagaaca 300
ccaagggcaa gaagagactc tccaagatgg tctatcgttg gaaatgaagg gacatgtcgt 360
ttttctgtcc aacgagaata gcacttgtct tctgctaata ttgccgctgg acatacgaac 420
tctgtgcttt tgtgtgcaag caatactcgc taatagtctg ttccgatttc taatga 476

<210> 50025
<211> 304
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-046-Q1-K1-C3

<400> 50025

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cctgacactc ggaagacaag taagtactct tctagagcgg ggcagccgtg aaggaaaccc 120
agctgccccg gattcagatt acagaccga tagcaagata ctatgggatg aagcgtgggc 180
aggtcgtgaa gatcacaaga gccagtgaga ctgctggaga tacatcacct accgctacgt 240
tgtctgagct ttgctacatt ctcatggctt aagcttccgc accaagcgaa aatgacctct 300
actt 304

<210> 50026
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-046-Q1-K1-C7

<400> 50026

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gctgagtatc agctgattga tatttctgag gatggatggg tgagccttct tacttcagat 120
ggcaacacta aggatgatct tagactccca actgatgaga ctcttgtggc ccagattaag 180
gaagggttcg aaagcggtaa ggatcttgtt gtgactgtcc agtctgcgat gggggaggag 240
cagatctgca cgttgaagga tgttggcccc aagtaacttc cttggctttg gagacggaac 300

cctactgtat ctcaacttaa atcggaaaag aagtgtatca ccaaattggat agctaccgat 360
acattcacct ggcttgaact ggcttttgct at 392

<210> 50027
<211> 262
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-046-Q1-K1-C8

<400> 50027

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actccgcaca ggagcctcca ccggagttag tttcctaaca gtggctgacc gtccatcctg 120
acatggctta acacgacgca catgcgatgc ccgagccaca tgacgcacct gcacggctac 180
aagagtccgc gctggacgga ctcgcatcc atacaccagc cgtgccgtat cagatgcgac 240
gagatgggta agtgatctat cg 262

<210> 50028
<211> 294
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-046-Q1-K1-C9

<400> 50028

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tctgtacccc aagcaccggc gcgtcggcgg ctggtgacca tggcagtcgg gaagaacaag 120
aggatctcca agggaaagaa ggggtgtaag aaaaagaccg tcgatccctt ctctaagaag 180
gactggtatg acatcaaggc cccatcggtc ttcagtgtgc tcaacattgg gaagactctc 240
gtgtccagga cacagggtac caggattgcc tatgatggtc tgaagcacat agtc 294

<210> 50029
<211> 223
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-046-Q1-K1-D1

<400> 50029

tcggtctcgg attcccgggt cgaacgcgtc cgccaggcgt tcgtccacgc gtccgtccac 60
 ttgttttaac tgaagggttt tcatgcaccg gggacgggtt acccaagatc ttgatgggtcg 120
 gcaacagata ccatgaccct ttgottaaag cgatggaatt cctgggtgtcc agattattga 180
 aaccttgaca aggccttaag gatctagttg gaagcccaca tta 223

<210> 50030
 <211> 458
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-046-Q1-K1-D11

<400> 50030

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 ttgttaggac ttatacaaga tgtgtgcatt ggggaaagtg gaccgcactt ggactcgaag 120
 catgcgtatg ttattgttag gcatgtgaag tttgcaacaa agaaagggtgg gaagaaagct 180
 agccaggcca tggaagatgc aggaaaaggt accagcagtg ctgtcccata gtcaccctt 240
 gatggcagca ataccgaaga catggcagtt ggacatggtc tcgggaaacc tgatgatcgt 300
 accatctcag atcgtgttaa ggaaacagcc acccgtctct tcagagactc cncctgccaa 360
 aaagaggggc acgatagaga atttaaaagg gagttcaatt ggccaaaatc caaccaggg 420
 gctggtggaa acagaaataa tcctgccaga ggggacca 458

<210> 50031
 <211> 358
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-046-Q1-K1-D3

<400> 50031

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 actcacttta ccattgtccc agaataataa ttagtcactt caactttctg cgtctgtgga 180
 gtaaggttgt acgagtgttg gggctgtgtc attatgggat ttgagctcac ttggtttctg 240
 tgtaaagtgc agctgctgcg gtttttttgg tcactggatg actgctgctg ttggctggtc 300

aggtttgata tcgagaaata tccattgcat tctgcgtttg aaaaaaaaaa aatttatt 358

<210> 50032

<211> 359

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-046-Q1-K1-D8

<400> 50032

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tagcattaaa gactgcgctt gaaggagtat gacagtctgc tacctcgatc atgactcaag 180

aataaggcta actgcaagcc tgacttgtaa aagcccaggc tcgatacgcc gtcatgcgtt 240

gccaacgggc aaggttagga acgaaaatgc ttgatacagg atcactggac tccaacaact 300

agtcgctcct tttggaaga cggacacagc atcgggtgctc aatgagacca tcgagtaca 359

<210> 50033

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-046-Q1-K1-E1

<400> 50033

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acaggggaagt ggaacaagtc cctgagttgc caaccatgtg accaagaagg cgatcctctt 120

ccaggcacgg agctgaagga gatctggaga gttgctcctg cccacaggg cgacaagtat 180

cagtacacac acttcgcaca caaaataaac agcttcgaca cggcacctaa gaagctgttg 240

gcatctgatt cacggctgag gcctgataga tatgcctcgc agaagggtga catgtctaag 300

tccggggcag agaagagcag gctcgaggaa caacagagag ctgagaaacg aactcgagag 360

gccaaagggc agcaatttac tcctagatgg ttcaacctga cagatgtggg cttccctaca 420

<210> 50034

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-046-Q1-K1-E10

<400> 50034

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agaatgtggg ctacttgagg gcaactgggg atcgacaatt tgatgcagca cagcaagctt 120
accatgctgt gccaggagca gccatggcgg atttgagctt caaggagtct atacaggcat 180
atgcaatgga acaaggtttg ctatttatgc ctagagttgg caagttctat aatggcatgc 240
cagtgtatga gttcggcaca gttagtattt gcatagactc tgtgaagcga ctactctatg 300
cacaacttca agagggaatc gacagatgga gtcctgtaac tcttacacaa ttgatggaca 360
tgaaccgaat tggaagacca cactagtaga tcgctcctag cccttgactt gcatgatggg 420
t 421

<210> 50035

<211> 259

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-046-Q1-K1-E11

<400> 50035

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ggagaagctc aagacgatgt cttgtgagat tgaggtaggg tctcgggggtg ctgtggagag 120
agtgatgcat catgtgaggt ccttcacgc aatcctaaag catcatgctg cagatgcaag 180
gcagtgggtg acctagtttg gggcttgtgc tgcttccatg tcttacgttg tttcatcaca 240
atgtgaaggg aagcttatac 259

<210> 50036

<211> 455

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-046-Q1-K1-E4

<400> 50036

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 gggcgtggcc gtcggcatct gcggtttca gctcttccg aacatcacg gcaaccgga 180
 agtcagggt aacaaggcag ggagggcagc tgggtgtgctt gagaacctg aggaggggag 240
 acgttacgcc atgcatggcc taagaagctt tgtgcacgac aagactcctg agatcatgcc 300
 tgcagttaac aagttcttca ctgaccctaa gtgaagcatg ttgattggca tactactact 360
 actactactt gctactgtgg attttacact ttgctggcaa ctcaatatgt tggggacatc 420
 catgacctct aaaagtactt tgagcgcttg gtgat 455

<210> 50037
 <211> 470
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-046-Q1-K1-E5

<400> 50037

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 acgcgtccgc ccacgcgtcc gccacgcgt cgcgccacgc gtccggacgg tcaagccctt 120
 cgtaacggc ggggcctctg ggatgctcgc gacctgcgtc atccagccta tcgacatggt 180
 caaggtgagg atccagttgg gtgagggtc tgcgtggtcag gtcacaagga acatgcttgc 240
 aaatgagggt gtccgttctt tctacaaggg tttgtccgcc ggattgctga ggcaagcgac 300
 gtacacgact gctcgtgttg gatcctttag ggttctaact aacgaagcag ttgaaaagaa 360
 tgaaaggaag ccattggctc tatttcagaa aggttttatt ggtctgactg ctggtgcaat 420
 tggtgcttga gttggtagta ctgctgatct ggcactcatt agaatgcaag 470

<210> 50038
 <211> 367
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-046-Q1-K1-E6

<400> 50038

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 gcttgctgc aggtccttg gcgtgctctc ggaggccatg gacctggaca cggaggctct 120

ggccagggcc tgcgtggaca tggaccagaa cgggtggtggt caacttgtag ctgaggtgcc 180
cagcatccgg acctcactct ggggctcaag cgccacactg accacggcac catcacgctg 240
ctgctgcatg acctcgctcg ctgactccag gccacgcgog actgtggacg gacctggatc 300
accgtgcagc ccgtggaggg cgccttcacg gtcaacctca gcgaccacgg tcacttactg 360
agcaacg 367

<210> 50039
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-046-Q1-K1-E9

<400> 50039

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cgcttggagt ggacataccg tacggggctg aggaagacga gcccagacaag aagaagcccc 120
ggatgatgct catcgagcgg ggcaagacgc ggaggctcgt gaacacgcct gacgttctac 180
tcgggcttgg ctggttcggc ttcgaggtag tcagggcgga tccaaggacc cactctgacc 240
tcgaggagtt tgcccgccta gtcgactcgt gtgacgcgat gatgggcgct cacggtgccg 300
gtttgaccaa catggtgttc ctgaggtcgg ggcgagcgtt ggtgcacgct gtgccttacg 360
gtgtctagtt catggctgac 380

<210> 50040
<211> 351
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-046-Q1-K1-F12

<400> 50040

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gcctttgatt gagagggtga agtcaggagg agcgtgtgac tgtggcgat gggatgaagg 120
ttgcatgctg agtgtcctca ctgatgctgc cgaagaaaat gatgccgttc atgctaacca 180
ggcataggat ggcagccagc tatttgaact tactagctca aggtgcgac acgagaagat 240
aggcatgcct tcactatgac ttcatcata gagtgtcatt atacaatgag catgcatatc 300

atccattgca ttacttcagg cttgtgcaac tggcttagtg atactgcatg a 351

<210> 50041

<211> 456

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-046-Q1-K1-F3

<400> 50041

taaaaagaaa catataaaaa tcaaaatgat ttatttatca ctacgaaaaa agaaaacaat 60

tagtgagggc ttgatacatc atactggaag gagacaaaaa gtgaaaaaac actcacagtg 120

caatgctaac tttggactga aacggatctt agacttaact aaactgggtgc atgaatcatg 180

atgtcatgag acctttgctt agctacactg accgctgtca tttctctagc tatacgcgta 240

ctcgaatttg gatacatgcg ttgctagagg attatgcgta tgtttggtcac taggtgtccc 300

tctcattcat actttgcaac tttacgtcac tgggatccat ctatctacta gataattgag 360

ctctctgata gactaaaggt gcgaatgata gtactagagc taatatatag ttgactcact 420

gaaattagct agcttaccaa tatctagcta actatt 456

<210> 50042

<211> 485

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-046-Q1-K1-F7

<400> 50042

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cacttactcg cggagctgat cccatgctta ctgatgggcc tgaacacagt catgcagatc 120

ttactgcacc gtttcgcatt cttgaactcc aaacatacga acatggcgaa gcaagtgcc 180

aagcacaact ggaagactca cttacacgcc agcaactagc gcgccaagga gttctagggc 240

ctgctaaagt acaacgaccc cgagggcttc aacctcgctg acgtcctcga ctggggctcg 300

ctcggccaca tcgtcgcta ctacatgctc gccacctgca gcaacggata cgacccaac 360

ttcttctgag cggccggctg cgggcatgtt cttgagcctg cctgtattct actccgtgtg 420

tgttgagcca tatatctgat gctcaaagat tggttaattt gaacaagtgg tgcaactgca 480

cgtgt

485

<210> 50043
<211> 149
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-046-Q1-K1-F8

<400> 50043

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tccttatgtt aacgagacca gtggagggtca cgggtgttcac cgataacgaa ggcatgacat 120
atcacacagc tcatttctgg acagccttt 149

<210> 50044
<211> 207
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-046-Q1-K1-G11

<400> 50044

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cgcatgtgaa tcgcactgtt agttaatgct tgggtgctgtc agtcttggtg ggagtctgac 120
tcgtaaagct cattatcacc ggaagtgttt gtcggaggag tgctggcact aactatttat 180
cttcagttgg ttgtcgtgtt gccaaaa 207

<210> 50045
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-046-Q1-K1-G7

<400> 50045

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cggctgggag accaccgaga ccagggcggg cattatcgca cttgctgagg atacactgac 120
gaaccttggg tgtgtactgt cgccagtgtc agctctgaca tgtactcctc attcactgac 180
caagtcattg tccaacttgg actgtggaag gagtagagct ctgacaagta tgagacgaac 240

gtgtatgtac tcccaatgca cattgatgag aatgacgctg ctcttcaatt gggcaagctt 300
 gatgccattc tgaccaacct caccaagtct catgacgact acatcagcgt gcctatcgag 360
 ggtacctaca agctctgccc actaccgaga ctaggcaca 399

<210> 50046
 <211> 379
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-046-Q1-K1-G8

<400> 50046

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 tgggctgggtg ctgcgcaacc cttacatcac cacccttaac gtcttacagg cctacactct 180
 aaaacggata agggacctca actttaatgt gacacttcag ccgcctttgt tcacggactt 240
 acccgactag atcgagcgca tctgactgct caagctgcac ccagcgatgc ttgtcacgat 300
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 ttcataggat gctttcttct 379

<210> 50047
 <211> 356
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-046-Q1-K1-H10

<400> 50047

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 aggcgccgta ccaggacggc gtctccaagg agctggcgca cgctgaaga ccctgatcca 120
 tccattttctg tccaccacgc tatgtacgta tgtgtagcag atgggtttaca tctacgtgtt 180
 agagcccgga gagctggaga agctagctag cgtgcttaca gaataacagc agccaagcaa 240
 agccaagggg gtgtatataa taggcatgcc ttgggttggtg tcagctgcga ctgtatgtat 300
 agtttaaacc aagatgaaat ggtactgatg gtgatattcc gtgttttacg ataaaa 356

<210> 50048

<211> 339
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-046-Q1-K1-H3

 <400> 50048

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 ttatttactg tacagacaac aatcacccaa agggatgaat tctataacca tacgaatgca 120
 agcattcagc tacacactta cctcaaggca cctgtctcct acactcatca caatcccaac 180
 tcttacgcac caccattcca cagccaccac taacctgcta acttttccgc gacatctaac 240
 aacaatcatg catctgtccg gctcgaacac gaacacgaac ttgaaacctg acagcaccac 300
 ttaaccctac agaacagcta tcacctccgt catctacaa 339

<210> 50049
 <211> 390
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-046-Q1-K1-H4

 <400> 50049

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 ggcgcgccat gctcgccatc ctcggttact tcatccaggg gctcgtcacc ggcgtcggcc 120
 cgttccagaa cctgctcgac cacctcgccg acccgtcaa caacaacgtg ctcaccagcc 180
 tcaagttcca ctagaacgtg gtgcatcagc atacctgctg ctgccgccgc cgccgccagt 240
 tgtttgctgt ggaaagctag atgcatgcgt gttgtaaagg aacctgaagc gttgcatcgg 300
 tcatgattca tgcattggca gctgctgcc tgtaacaaca aactagtatt gatcttattg 360
 agaccggaaa ctgtattgca catggtaaaa 390

<210> 50050
 <211> 363
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-046-Q1-K1-H6

 <400> 50050

ttccccgggtc gaccgacgca tgcgtccacg cgtacgcagg ggcctgatca gagtgggttc 60
 tgggttttgc ctttatgaga agcgtgtggc tgatcttctg aagggtgggca aggacaagcg 120
 tgccctgaag cttgctaaga gaaagcttgg aactcacaag agggcaaaga agaagagaga 180
 ggagatggca ggcgtttctca ggaagatgag gtccgctggt acgcacactt acaagaacaa 240
 atagagagca tttcaagtcc atggagcctg ccagagatta tgttccagtg tctgatttta 300
 catacatgta gaacctataa tacatgtcaa agtcttatgt atccaaccag ctcatgggat 360
 ttt 363

<210> 50051
 <211> 343
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-047-Q1-K1-B2

<400> 50051

ccgggtccgga ataccgggag ggaccacgc gtgcgggacc tactagcgac aaaccgctct 60
 tctaaacaaa aacctctcag ctaatatggc ggaatcttat acatcgatca caggcctctc 120
 ccatggcgtc ctgccaagaa cgctcacct cagcagaacc agcacagccg tgaccagaag 180
 aacgccgccc gcatatggca acgccagtcc cactccggc cgacgaaccg ctatcggcct 240
 cttgctcact gtcataacaa gctggaccat gtcctagccc tcacgcgcgc aaaccgtcta 300
 gaccatcaag attgaaacac tcgtcttcaa cgttcgcatg acc 343

<210> 50052
 <211> 305
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-047-Q1-K1-C1

<400> 50052

gtcaaaagcg cggccatggt tgtagctgta gcgtctacat gtcgtcgtcg tcgtggtcgg 60
 cgtcgatgcg tggcctcgat gganaagctg gcgttgctct ggtgatatga tgagagcaga 120
 gcagctcccc tgtgtgaaga caataagagg gaggagccta ctcatcagcc tacttccatc 180
 ttgcttatta ggctgctcaa actgagttgt cgttagctct tttttttatt tctccttcct 240

ttaaagtttg atctcgatcc tctgtaaatt taagctgcag aagaaccaa tacatgtctc 300
gaaaa 305

<210> 50053
<211> 452
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-047-Q1-K1-C5

<400> 50053

ccgggtccgga attccccggtt cttccttttt gttccttccc ttttttataa cccnccccggg 60
cttaaccgag agccagtcgt ctggctaggg tggggccgcc gccgccatgc ctggccgcat 120
ctcaggaagg tctgccccac gccagctcc ccgtgctgct tcaetgagga acccgccaca 180
tccagcacgc caggtcctc ctccagctcc tgttcgagat ggtggtggct ccatgtttgg 240
aggaattggg tccaccattg ctcaaggtat ggcgtttggc acgggtagtg ccatggcaca 300
cagggctggt gactctgtat taggtccccg gaccatccag catgagactc ttgccacaga 360
agctctgct gctgccccg ctgctccagc gatgaatgct gatgctngca gcttccattc 420
taaggctttc caagattgtc tcaacaacta tg 452

<210> 50054
<211> 427
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-047-Q1-K1-C6

<400> 50054

cggnccgga tttccgggtc gacccaagcc tttccccaag ctttcggtc gttgcagtgg 60
ccttaacgaa caagagccta gtctctcggc gcgcgacgct acgggtctgc tcgtcgaggc 120
gctcgatccg tagcctgggtc gtttaaggctg caactgtcgt caccocaaag tacacttcac 180
tgaagcctct gggagatagg gtgcttgtga aagctggtgc cgcagaggag aagacagttg 240
gtggcatttt gcttccatct acttgccaaa ctaaaccaca aagaaggga ggtgttgctg 300
gtggaacaag aaagaccatt ctggacaaga aaatagctgt ggatatagag actggagcac 360

aagtagtata ctcaaagtat gctgggactg aggttgaatt caatgactca aagcatctta 420
 ttctcaa 427

<210> 50055
 <211> 352
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-047-Q1-K1-D11

<400> 50055

cgggtccggaa taccgcgggg gaccacgcg tccggtcttc ttgtgttttc tagcgttttt 60
 ctctgccaga agaacaggat tctgcggagg attttttaag agggccggga aggccctcca 120
 cnacaagctt ataaggagga gctcaccaag cttctcgtat tcataagctt tccaagttgg 180
 cctactacta ctacgcttgc ggcgccgaag ttccgtggtc gctgctcgag aacatggagg 240
 ccctctccac catctcgatc tcattctgat gagtttagat tgccatagaaa cgtactccgt 300
 ggctggcttc ttatgtctaa cctggcttct taagtagctt cttcttattc tt 352

<210> 50056
 <211> 434
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-047-Q1-K1-D2

<400> 50056

ccgggtccgta ataccgggt cggaccaacc ctccggttg aggagaattc cgcggcgcttc 60
 tggacgacaa tagcgccgaa cgtggactat tgcagctcgt ctgtggcgcg gctgatcgcc 120
 cgggatcggg gcagctagtg aggggcatca tctggtgcgg tgacatcacg gcggggggcc 180
 tgccggcgtgg ggaagaagtg atgaagaaga gcgtgggtcc cagcacgaag ccgacccatg 240
 tgaagcccag cactctcaga aggatgaaga gggctaggag ggttacaaag atgtccaaca 300
 ggggtggcaaa ctcaatcctg tctgggggttc tgaaagtcac tggctttgtc acaagcaccg 360
 tgttgaactc caaaccagca caaaagtttt tcaagttaat gcctggtgaa gttattcttg 420
 cttcacttga tgga 434

<210> 50057
 <211> 439
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-047-Q1-K1-D4

 <400> 50057

 ccggtccgga attcccgggt cgacccaagc cgtcggttcc gggtgacatt ccgactcctg 60
 taccttcccc tccacgagtt ccttccagaa gggaacatcg aggacattgt aagtgaatta 120
 tgtgctgaga cgggagccaa ccaggaggat gccctcgcgc gaattgaaaa gctttcagaa 180
 gtaaaccgga tgcttggctt ccgtgggtgc aggcttggta tatcgtaccc tgaattgaca 240
 gagatgcaag cccggggccat ttttgaagct gctatagcaa tgaccaacca ggggtgttcaa 300
 gtgttcccag agataatggt tcctcttgtt ggaacaccac aggaactggg gcatcaagtg 360
 actcttatcc gccaaagtgc tgagaaagtg ttcgccaatg tgggcaagac tatcgggtac 420
 aaagttggaa caatgattg 439

<210> 50058
 <211> 446
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-047-Q1-K1-D5

 <400> 50058

 ccggnccgga ataccgggt cgagccaagc cttccgagga ggtccaactt ccgacgacaa 60
 ctactcaggc gccacacatg gcatcccatc tgcggccgc cgtaccccggt ttccacggcc 120
 tccggggcta cgccgcgcac aggtccgcgg tggcagcgct gccgtccgtg aggggtgggca 180
 ggaagaggtc gtcgtcgcag ggcattccgt gcgactacat cggctccgcc accaacctga 240
 tcatggtgac gacgacgacg ctgatgctgt tcgcggggcg gttcgggctg gcgccgtccg 300
 cgaaccgcaa ggcgactgcg gggctgaagc tggaagcgcg cgactccggc ctgcagacgg 360
 gtgacccgc cgggttcacc ctgcgcgaca cgctggcctg cggcgccgtc tgccacatcc 420
 ctgcgctcgg catcgtgctc gggctc 446

<210> 50059
 <211> 86
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-047-Q1-K1-E2

 <400> 50059

 cggaattccc ggggtgggccc aagccttcg gcctaccaa aaagccaaa gcccgtagg 60
 ttacttcgct gcctgaggag ccccg 86

<210> 50060
 <211> 428
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-047-Q1-K1-E4

 <400> 50060

 atcggtcctg aattcccggg tcgagccacg cgttcggcca agccttccaa aaaaggagga 60
 gatggagcac aggcccaagc agcacctcgg cgagggcggc gccatcgccg cggcgccctt 120
 cgcactctac gagaagcacg aggcgaataa tgaccccgag cacgcgacaca ggcacaagat 180
 cacggaggag gtcgctgccg cggcgggccgt cggcgccggc ggctacgtat tccacgagca 240
 ccacgagaag aagaaggacc acattgacgc cgatgaggcc agcggcgaga agaagcacca 300
 ccacctcttc ggctgaccgt agtaccggcc ggcgcgcgac cgagctagct agcttcggcg 360
 cacacaacca cacacctgtt taattctgta ctgcatgcgt gtgtaatttg atggttcaca 420
 ataatgag 428

<210> 50061
 <211> 416
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-047-Q1-K1-E5

 <400> 50061

 acccacgcgt ncgcccacgc gtccgcccac gcgtccgccc acgcgtccgc ggacgcgtgg 60
 gttcaaccgc tggaccttcg atgatgtcca ggtgaacgac atctcgctga acgactacct 120

cgctgtgaac gcgacgaagc acgcgatgta cctgccgcac accgcgggac gttactccaa 180
gaagcgggttc cgcaaggcgc agtgcccgat cgtcgagcgc ctacaaaact cgctcatgat 240
gcacgggcgc aacaacggca agaaggtcat ggctgtccgc atcatcaagc ataccctgga 300
gatcatccac ctgctcaccg atgccaaccc catccaggtc gtcgtcgacg cgatcatcaa 360
cagtggaccc cgtgaggatg ccaccgtat tggttccgct tgtgttgta gggagc 416

<210> 50062
<211> 436
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-047-Q1-K1-E6

<400> 50062

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gagcttcttt ggcaccacaa ggtcgaggat gtcttgcaac tgcggatcaa gctgcggctg 120
cggctcaagc tgcaagtgcg gcaagaagta ccctgacctg gaggagacga gcaccgccgc 180
gcatgccacc gtgctctctg gctgggcccc ggagaagaag gccgcgcccg agttcgtcga 240
ggccgcggcg gagtcggcg aggccgcca cggtgcagc tgcggtggca actgcaagtg 300
cgaccctgc aactgctgat cacatcgatc gacgacctg gatatgatta ttatctatct 360
agcttggtgt ggtggttgaa caataataag cgaggccgag ctggctgcca tacatangta 420
ttgggtggtg tgtgtg 436

<210> 50063
<211> 261
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-047-Q1-K1-F11

<400> 50063

aacgacggta ggtttggagg tgctgaaact gaagtatctg tgttacatgt gtatgttcac 60
agcagatgaa cttttactag cagatgaact ttacagcgtt acatgtgtat gttcacggca 120
gcaccctgtg tgtatgtgta tgtgtatgcg cctgcgcaac ctactacttt gcgggctcct 180
actccccctc ctctgtcttt cagaccggaa ggatgccttg cccatccagc ctcttgata 240

cccagaacac cagtgacttg g

261

<210> 50064

<211> 328

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-047-Q1-K1-F5

<400> 50064

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ggcgtgcagg ctcttgggag tgctctcgga ggccatgggc ctggacacgg aggcgctggc 120

cagggcctgc gtggacatgg accagaaggt ggtggtcaac ttctaccga ggtgcccga 180

gccggacctc acgctggggc tcaagcgcca caccgacctg ggcaccatca cgctgctgct 240

gcaggacctc gtcggcgggc tccaggccac gcgcgacggc ggcgggacct ggatcacctg 300

gcagcccgtg gaggcgccct tcgtcgtc 328

<210> 50065

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-047-Q1-K1-F6

<400> 50065

aagttccggt ccggaatacc cgggtcgacc caagccttcc gcaacccttc cgagggattg 60

ccactttttc tacattttca gttcgctatg tggaaggctg acgagcaaca gttacatgaa 120

tgggaatcga aagtatgcag aatgcagggt tcatcaaagtg ggtaccaagg aaaaaaatg 180

cctcccaagc ctgcattggt tgccttctgt ttgaggcctc gtggactcga tgtaccatac 240

aagggaccaa agcagcggtc tcataagaag cttatgtcta caggctgcca tagcttttca 300

agacagcatg atggctttta ccggcaagta tcaagtagga gatacaatga atgcactgtg 360

gatggcgga tatgcgaatt atatgacatt ggttctcttt attccctaac aggggt 415

<210> 50066

<211> 174

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-047-Q1-K1-F8

<400> 50066

cgggtccggaa aacccggggg gaccacgcg tcgggggtcc cttctctcaa aaatcatttt 60
ataacaagcc aaactaaca gcctgagaag ggtcttttca ataagggggc gccctacacc 120
cataattcta ccgaagaaag aacgctccta ggcgatgaca gggattacta ctgc 174

<210> 50067

<211> 281

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-047-Q1-K1-G2

<400> 50067

ccgggtccgga attcccgggt cggcccaagc cttccggttt tttgggcat tatatttttt 60
ctgtccttct aaaagtggcc ttatactgtc tgcaggagcc taacttaacc aaactctata 120
ttcaaaccta actctttaa cagtgaaggc tgcagtccaa aaccctggca aaatatggtt 180
tggtcccggtt ttatgcacga tttgttggga cattgagctc accaatacga ataagtggac 240
gtgcaaaaca ttattctagc actggtgatg tattatagac a 281

<210> 50068

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-048-Q1-K1-A11

<400> 50068

cgggtctcgga attcccgggt cgactccacg cgtccggaaa gaggtcgcag ctcgatgag 60
agagatcacc gcgctggggc ctgatggggc aagtccgaag gtgtcaccgc tctggtgggc 120
tgagcttgag attatgactt ctgagagctg agttcgactc gtgccagaag atattgtttc 180
tcctagtgtg actgagaatt ctttgagcta ctactggctg ctgctaactt tgtttgtgga 240
agtggtgatt aggtagactt tggtatgtgt gcagaattgc atatagggat tggatttgta 300
cttgtagatg tcaagaaggt ttaacacaca acatactgat atgcaggcat tccagccagg 360
tgagcaatag aaagcatgtg tggtttgttt ttgctgcaaa aa 402

<210> 50069
 <211> 458
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-048-Q1-K1-A12

 <400> 50069

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 tcgtccggca tgtgctacct taggggtctt ctaggccact cacacgaaag ctttcatttg 120
 atgcctcctc aagtgaatca aggggcacag aaccctcaac aagtatgtca acagagaaca 180
 cacctgtgtc catcaacgtc ccaaagttgg cagagggcat tgaatttggg aggcaaccaa 240
 tggtcacatc ctccactttg gtagagctaa caactagact agattttcttc aaggagcgaa 300
 ggtcgcaact gatggaacaa cttcatagcc ttgatttggg acgtggatct gctccgcaag 360
 gttttccatt caagccaccc tctccttggg accaccaag gtaggaggat gaccgttcga 420
 tttcatgatt gtaaattctt caatagtggg tccttttc 458

<210> 50070
 <211> 383
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-048-Q1-K1-A3

 <400> 50070

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 aacattattg tcaaagtgca aggagatgcc acagtggatg ctgtctttgc taagatcgac 120
 gagctgctgg gttctatcct ggagaagaaa aatgaaatgg tttccagcac atgagcaagg 180
 taaaaatgat tgggtgcagt gcagatccga caagttcatg taatgcaagt cacctctcat 240
 gataggaact tctccagggg aatatatctg aagcacagga cgacacgtac aagtaatgta 300
 agccagtctc acgtaatgga aatttctcca tgtggatgtg gtcaaagcat angaattttt 360
 ttcctccaat tattaactgt acg 383

<210> 50071

<211> 252
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-048-Q1-K1-A4

 <400> 50071

 cggacgcgtg gggcagccgt gcagtgcctga acttactaat gaactggtag gtcagcctga 60
 agtagttttg ataaaagcag ttgccaaaga gtctgcagct cgcaggatca cctgctatat 120
 gtgcgtgttc ctgctatctt tcggaaagat ttgggttgta cataatctgt ccttaccctt 180
 ctttttttaa aaaaaattat gttcctacta ttcttaaaaa aaaaaaagct aaaaactata 240
 aataaaaaaca aa 252

<210> 50072
 <211> 465
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-048-Q1-K1-B11

 <400> 50072

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 ttcaatgagc gctatcaaag atgagccaga acggaccatt gatccaacca gagttttgga 180
 aaaggcttat attagtacta aagcaagggg gtcacttacc gcgtgtatca tcactcttaa 240
 agatcagggt atccatgctg taaatctcgg ggatagtggg ttcgtagtag tccgagatgg 300
 ccgcactgtt ctcaggtcac cctcacagca gcatgatttc aattttactt atcagcttga 360
 gagtggaggt ggcagtgatc ttcctagttc cgcacaagta tttcactttg cgggttcctt 420
 ggatgatgtt atcgttgctg gcacggattg actatttgac aattt 465

<210> 50073
 <211> 248
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-048-Q1-K1-B12

 <400> 50073

gattccccggc ggcacccact cgtcctccca ctgcgtccgt tttctatagc atgtatcagt 60
ccaggactcg ttttttttct gtcgagtatc cttgcaagtt ccgactccct cactcatctc 120
cgttcgtccg tctcacccgac ccctagctcc tctccacgcc ggacacgtcc agattctatg 180
cctactacta tcgctaacgc tcttttatct ccgaggctat gcaccatctt cttcattcca 240
ttctccca 248

<210> 50074
<211> 426
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-048-Q1-K1-B4

<400> 50074
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agaagagtaa cccctcgtct cgcggggccc gggggagccg cggcgatcc gccctggcg 120
gcgggaccgg cggggtcggg ccgaccaggc gcccctttaa aagggtctggg aacaggcagg 180
cgccctacca gccgccgaag gccccgacg ctgcgtggca gcacgacatg taccctgcgg 240
tcgccgcagg aggcggcggc ggccggcgga ggggtctcggc tctcgagacg ggcgccaagc 300
tctacatctn caacctggac tttggggttt cgaacgagga tattaaggag cttttctctg 360
agctaggtga tttgaagcgt ttttcgatta attatgatcg aagtgggagg tctaagggaa 420
cagctg 426

<210> 50075
<211> 171
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-048-Q1-K1-C12

<400> 50075
gattccccggg tcgacccact cgtccgcccc ctgcgtactac cactcgtccg ctctgccttc 60
gccgctccct attccttcag acgctctttc cactcgggtac aattcgtcac cagccccgca 120
ggcgccatca ccgacagggc gctagtagac acggactcca ctaataaggc a 171

<210> 50076
 <211> 291
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-048-Q1-K1-C7

 <400> 50076

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 tttctatccc gacacccgct acccgggtggc tgtgcgggttc aacaaggtga actacgccgg 120
 cgtgtccacc aacaactacg ccttggacga ggtcttagag gtgaaatgag tggggccggc 180
 cggctcaagg gctccaagct agctaccgtg tgattgatta gtagtatttg tgaaatgagg 240
 ctgcgaagct gcatgctgtg ctggctagcg tcaccacttc gaccctatgt g 291

<210> 50077
 <211> 463
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-048-Q1-K1-C9

 <400> 50077

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 cttggcttga ctggaaacaa ggtcgaaagg ctgtgtgata tttgccacat cacattgaac 120
 aagaatgctg tcttcgggtga cagcagtga ttgtctccgg gtggtgtccg cattggcgcg 180
 ccagcaatga cctcgagggg tctactggag aaggatttcg agcagattgg ggagttcctc 240
 caccaggcag tgaccatctg cctgaacatc cagaaggagt acggcaagct cctcaaggac 300
 ttcaacaagg gcttgggtgaa caacaaggac atcgagaacc tcaaggtcca tgtggagaag 360
 tttgccgact ccttcgacat gcttgggttc acgcttgaga gcatgaaata caaggagtag 420
 atatgcctct ttcattgcgcg gcaaagggtcc tctgtaccga tgt 463

<210> 50078
 <211> 209
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-048-Q1-K1-D12

 <400> 50078

aattcccggg tcgactccac tcgtccggtg gagatctcat cacacaacag actctattct 60
acgccatgtt caattcagac gcaggtgatg tttgacagaa ccgaatgtcc aataacgcct 120
actatcagga ggcttactag ctccgggttac atcttgagca gactattacg gaagctcgct 180
ccgaccgttc agcaagaaac tacacgata 209

<210> 50079
<211> 149
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-048-Q1-K1-D6

<400> 50079

ctgacatttg ccattaatgt atgttggttg gtatgttatt cctaagaatt cctgggggat 60
tggaacgtac tgtataaacc gtggtatccg agcttcatgt ttgcttgatg cttatgcaaa 120
ttgaagggtg aataagtgtc agtttcacc 149

<210> 50080
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-048-Q1-K1-D9

<400> 50080

cggaattccc gggtcgaccc actcgtccgc gcactctttc gtggacgcgt gggcttcttc 60
agatcgatcc cattgatcga tgtggggctg cttgtcgaaa agattgatga tccaagcatg 120
gccaactata aggatttact gcatgttgtc cggttactgg atgatgcttg caaggaggcc 180
tgattcttct atgtgaaagg ccatggtatt gatgagtcac tgatgaggga agtcaggaat 240
gtaacccgag aattctttca ccttacttat gaggaaaaat tgacaattaa gatgacacct 300
caaagcggat atagagggta tcaatggata ggggaaaata ttaccaaggg taagcctgat 360
atgcatgaat caatcgattg ttatactcct attacacctg gcacatatgg agatcttgct 420
aaaccaat 428

<210> 50081
<211> 300

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-048-Q1-K1-E11

 <400> 50081

 tccccggcgtc cgacagcagc gttgcctaga gaattatgac tgttttccat catacgatgc 60
 catcacattt ttgtgcctgg cttttgctgc ttgtacagac ttcatacttg tccacgttgt 120
 tcctcctacc agatctgtga tgggaagtct ttgacatttg tatttagttc tcttttaccg 180
 aggagaaaat ctatgtacct acatatcttg ttgtctgaag cccaatgact agatacttat 240
 cttgaagcca tatccataat cttatcagca atgtgattat ttttaaaaaa atactgcttt 300

<210> 50082
 <211> 440
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-048-Q1-K1-E12

 <400> 50082

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 cttatggtat tgctggagct gtggtctttg ggggtgtgat gatcatctta ggaacagcta 120
 gcatccagaa atttgaggcg gtgaacttgc tgttggctgt gatcctgtta ttcacttctt 180
 acaagctatt tgctgaagaa gaacaagaat ctgatctatc cgataacttc attgtgaaaa 240
 catgccaaaa gttcattcca gtcactgaat attatgacga ctatcggttt ttcacatatc 300
 aagacggttt atggaaagct acaccattgc tcttgacttt ggcagtgatt gagctaagtg 360
 atattgcttt tgctattgac tcaataccag cagtttccgg cgttacaagg gatccactta 420
 ttatactatc atcaaatatt 440

<210> 50083
 <211> 338
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-048-Q1-K1-E3

 <400> 50083

 cccaggcgtc ctttttacca atccctcact caacagcctt ttgacgtcat acaatccttc 60

catgctgttg tctactgcat attatcgaat ggatctttat gaacgtccct taaatgaggt 120
gctgtgaca aatttttttg gatcagtcac gaagactctc cacactgatt cagcctacac 180
aggtttcttg gctgcgcatg acaatgaaac tccaatgtcc acgggagata accttgatga 240
tcatttcatg ttaaaggga gggctatcgc acgaagatca accatagaaa aggaagcaca 300
attaacaccg catggatgga ctgaagttct tgctgaac 338

<210> 50084
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-048-Q1-K1-F11

<400> 50084

tcccgggtcg acccactcgt ccgctgctcg tcatggacat cttctcgtat cacctcgatg 60
atcgttacgc ccaaaaccgt gaatgcctac tacatctgta tgcactatcc actgcagtac 120
gtatcacatc tggacgtgct aattatagac ctctaaaact tgaactgcat gaccattata 180
cgtactcagc cgatgatatc atgagtgaag cacacataga tcttcagcct atgatcacat 240
gtcccatctc ctttggagat acttcacgtc ttgattacat gcatattgga aggtgtttca 300
tgaccaaata caactccctg attaaagata gcactgtaaa tgttgcgaca aataaggtaa 360
aacatgatgt gcacttaaag ctacataacg tttaatca 398

<210> 50085
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-048-Q1-K1-F12

<400> 50085

taccggtctc ggaattcccc ggctcgactcc actcgtccgc ccaactcgtcc gccactcgt 60
ccggtcgtgg tggacgacgt gctcaagggc atgagggacc tctccgccg gatggacacg 120
gtcaagtctt tcgagtgggg ccaggacgtg ctgaaccagg agatgctgac tcagggttc 180
acgcacgtct tctcgtcac cttcgctcc gtcgcctacc tcgccgcta catggccac 240
gacagccaca ccgccttcgc cgccaccttc atggccgtca tcgacaaggt gctcgtcgtc 300

gacttccccg tcgtcgtcgc caagcctccg ccgccggcat gacctcgtgg ccgctctcgc 360
atccgcgcgc cactgtacgc ctcccccttct caggtcgcgc agcagatcca cgtgtgcctg 420

<210> 50086
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-048-Q1-K1-F3

<400> 50086

ggttcggaat tcccgggtcg acccaagccg tccgtgccga acttcagcac gccattgagc 60
tccagagccg ccgcctcatg gatctccagc tgcgcggtct caaggctcgc gcagctgcga 120
cagcagcagc ggcatcggca ctgccaacac cagttgccaa tgcctttgcg tccaaccatc 180
ctttgagcac catggcagtc gagtcgccac tagagtccgg agagcagctc aagctgagca 240
gtgggtttgc tctggagggg aagctcaacg gtggcgacaa ggaagaatct gcttgcgagg 300
cgagccctga cgcgcgtgat agcgacaaa ggtggattaa acaaccatt tcatcattct 360
tcttccttgt taagtatgat tcccacgctt ggccctcatg aatcatgac ctatatgtat 420
atggatatta atcaggtcta ggaagttcaa ca 452

<210> 50087
<211> 357
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-048-Q1-K1-G12

<400> 50087

attccccggt cgaccactc gtccggagct cacaaactat agtggcccga ttttcaagca 60
tactccattg aacctgaggg tgtagttttc caacgactac gggttctaca cctccggcct 120
ctcttcogac ccggagacat tttcgcgcaa ccggcatctg gacgtgatcc actcccgggt 180
gtcgattctg cgctctctgg gctgcgtggt ccccgagatc ctctccaaga acagcgtcaa 240
gttctgctag acaatgtggt tcaaggcctt ctgcgaaatc ttctcttaag gctggctata 300
ctacctgctg aacaccaacc tggttcactc acacatcatc cttaccatct attcttt 357

<210> 50088
<211> 455
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-048-Q1-K1-G3

<400> 50088

gaattccccg gtcgaccac ccgtccgcgg acgcgtgggg gcaaatttat tatccgtggg 60
gagaagtcca ttcagcagac aaaggcggag acacaatttg atgtgactgt gcaccatcag 120
atatggcgtc cgaggataca ccatatgttc acgttccagt tggtatcgac ttttataatg 180
tctcaccgtc aactgagat aagtcgaaaa aggagataca ccgcgtggat ggagaaaaag 240
agaagaaatn ttgggagaca ttggaagtgc tgccagtggg gctacgtcta agctcagaac 300
aaatggntta tggtttttcc nctaattcgg tcgtatttgg atgctngagt cctgcattgc 360
atgatgaaga acattctcaa tctctctttt ttggtaataa tttaaatcag gatctatang 420
gtaaaggaag tggtttggaa cagatttctg aatca 455

<210> 50089
<211> 356
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-048-Q1-K1-H10

<400> 50089

acccacgcg tccgccacg cgtccgccca cgcgccgtc gacttcgagg ccgggcaggg 60
caagacgccg ctccggcgcg tcggcctatg atttgcatgc tgccggcgac cgagtcagtt 120
ctcgattgcg cgcgggggtgg gtgagctcct agggacgtac ggctgcagcg gatcagacgc 180
cttgccctgc agattggagg ctaaagaaga gcgtagcagc aatctactgt ctgtgttggt 240
ggtttcttct gggtaacgtg cgtgaaccag atgggggtgtt cctctctgtt tttttttttc 300
ttttctgtgt atgtatgtac catgtaatgt atagtatgga tcgatttcat tgcatt 356

<210> 50090
<211> 386
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-049-Q1-K1-B1

<400> 50090

gcgccgtgct cgacaacctg gcgctctccg acgtcgggct gctggaccag atctcgtgcg 60
ccgacgacgt gcgctccgcc gagcgcgccg acggcgccgg ccaggtgtac tacgagtacg 120
aggtggcggg cgccagcgcg cacagcctca tatcggtgac gtgcgcacgg aacaagctgt 180
acgcgcactt cgtcaccgcg cccaacgccg agtggagccg cgacgaggcc atgctccgcc 240
gcttgacaga gtccttcaag accatccagc ccggcgcccc gccaccggcc acggagacct 300
agctccatct gagcacgagc gagaaacctc ctgagcgatt cgcggtgcgt tgtaattgct 360
agtaaaaatc atcagttttg taaaaa 386

<210> 50091

<211> 215

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-049-Q1-K1-E8

<400> 50091

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acacaacact aaatcattgc aaactggtat aatccataca actgtgtaca actagcatac 120
atactaatat atctctctga ttacaaaaat actacgcctt acttaacgcc cactacttat 180
ccaccattat caactgactt accgcccata aaatt 215

<210> 50092

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-049-Q1-K1-F7

<400> 50092

ggaacttcct cggcgagaag aaggtcagaa aggtggacat gcttgacggc gtgaccatcc 60
gtccgctccg agaaggtcaa ggacgagctt attctcgatg gcaacgacgt cgagttagtc 120
tctcgtccg ccgccctcat caaccagaaa tgccatgtca agaagaagga tatcaggaag 180
tttttgatg gtatctatgt gagcgacaag ggtgtgatcg aagaggagca gtgagggaca 240

attagttggtt atcgtttgag ttggaattat tgtttgggtt gcaatcttct caaggtgaac 300
 tttgtaatcg gttaggatgt gttgtggacc attatcttat cctacaatat tatcgatatct 360
 gcttaagaat atgaagcttg tttatcaaaa a 391

<210> 50093

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-049-Q1-K1-G11

<400> 50093

cccacgcgtc cgcccacgcg tccgcccacg cgtccgtcaa catcaactaa aagacgccag 60
 gcgcgcgccat ccatgctgcc gtccgcgcgt ggccggagga ggaggagagg aggaggagga 120
 aaatacatga aaaataaaac ttgtacacgt gtatgtctcc agattgtgcc gccgtcgttc 180
 tcgtcgttga cttttcgttg tattggtcga tccatatgtg tgtgcgtgtg tggcgatgtt 240
 ctttcttctt tgagtagctg ccctgccacc gcctgcaatg cgcattgccat ggcaggtagc 300
 gttgtctaag atcctatact gttgtatttt ggggtgaact acatcttacg tgctcaattt 360
 cttcttctaa gtaaaaa 377

<210> 50094

<211> 312

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-049-Q1-K1-H7

<400> 50094

ctagcctgga attggttgaa ggaaaggagc ttccgggagt tgttgccctg aatgaagccg 60
 ccactgtgac tgtatgaagc atgctttcat tttgtttcgt cttcgtcttc atgtgccgtt 120
 gtatacttgc tacattctcg cttgcacctc ccagccgct cgctcgaaat gtaagagacc 180
 aatgttttat agagccaatg gaaatcgttt gaacaacgac gacccaaata gtatgtgctt 240
 taccgagtga tctttcctcg gtaacgtaac tagtgatata aaaaacattc aaaggcaaaa 300
 aaaaacaaca tg 312

<210> 50095

<211> 400
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-050-Q1-K1-A11

 <400> 50095

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 cgtaatgttg gggaaactga tgagggattg agcagcttcg cattgggttg cgtaaacctg 120
 cgaaagcttg aactcaggag ttgctgcttc agcgagcgag cactggccct tgcaatacta 180
 catatgcctt ccctgaggta cgtatgggtt cagggctaca aagcgtctca aaccggccga 240
 gacctcatgc tcatggcaag gcccttcttg aacatagagt ttacacctnc caatcctaag 300
 aacggaggtt ggctgatgga agatggggag ctttgtgtag atagtcacgc tcagatactt 360
 gcataccact ccctcgcccg taagaaggct gactgcccac 400

<210> 50096
 <211> 311
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-050-Q1-K1-B12

 <400> 50096

 gaattcccg ctcgaccac gcgttcgcag gaagaggctt cagcttctgg tctcgttcc 60
 atagtcgaac tggctactgc aaccagagac caagaggaaa caaaagccac aaaaagagat 120
 tcaaaacaaa ataaagttgg tatcacagag atggaggaaa tttgtgtggg actgcaatga 180
 atcaaggaac acgcaagcca taagacgatg tgtttatgga tgaagatgat gatgccatgc 240
 cttcagataa tgttgcaaaa gatgacacta atgggttggc agagatggaa gaggatgctc 300
 tgacagaaat a 311

<210> 50097
 <211> 337
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-050-Q1-K1-B9

 <400> 50097

ctgctcgtag cggtccggaa agacgaatgc accaagcttg atgacggcat cttccgtggt 60
gttaatagct tcggtttcaa gtccgagggg acggaaagga agctctccaa ggatgacgac 120
tgagcgatat atcgccata tagtctctcg atataaactt cgagcgggtg gatttataaa 180
taagccatat taatgtaata atgctttaat aagcagttca tatgtgtgtc gaaaatacgt 240
tttaatttta tactactact acgtgtgcat gcactcttca tgtgtaatgc tttacttgta 300
atttattgcg aataaataaa gagagtatgt ctcaaaa 337

<210> 50098
<211> 384
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-050-Q1-K1-D10
<400> 50098

aattcccggg tcgacgcacg cggtccggtg gccgctgaca cttccgttcc ggggcgactt 60
ccgcccgcgc gcccgcgagc ccggaggatg atgtgcgttt tggacgggtc ttgtccggtc 120
cgtgcgtgaa tggaggggag gacgtgtcgg aaggtaatca gcttctcgtc ggcgggacag 180
ggggggcgagg aggctgcgag gcgagagacg ccggatgaga cacggaagcg gctggaggag 240
ctggatgcgc tgctggaggg gctggtcgag gcgtcgagcc catggtgcgg ccttcaacgc 300
caccttgctc tccgatccg tacttggacc gaggcaccga gccaccgagc catgataacg 360
ggacggggat catcagccga tgag 384

<210> 50099
<211> 424
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3078-050-Q1-K1-E12
<400> 50099

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ttcgggttcg tgaggttctc cgggggtcgg ttctgtgggt gagcggatcg agatggcggc 120
gtcngatgtt gagtaccgct gcttcgtcgg cggcctcgcc tgggccacgg acgaccactc 180

ccttcacaac gccttcagca cctacggcga ggtcctcgag tccaagatca tcctcgatcg 240
 ggagacgcag aggtcccgcg gcttcggctt cgtcaccttc tccacggagg aggcgatgcg 300
 gaacgccatc gagggcatga acggcaagga gctggacggc cgcaacatca ccgtcaacga 360
 ggcccagtc cgcggcgccc gtggaggcgg cggcgggtggg tacgggtggg gccgtggagg 420
 cggc 424

<210> 50100
 <211> 439
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-050-Q1-K1-F10

<400> 50100

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 acacagactc ttaagaagaa ctcaggaag cctggcccgt gttcgacaag gaccagaacc 120
 ggttcatctc tgctgctgaa cttcgacatg tcatgaccaa cctaaggagg aaactgacgg 180
 acgaagaagt ggatgagatg atccgtgaaa ccgacgtgga cggatgatggc cagatcaact 240
 acgaggagtt cgtgaagggt atgatggcca agtgagatga tgtgcctgtt ttgaagctag 300
 ttctctctt gatggtagta gctagtctag tggtggagac tgactgcatt tgggccgcct 360
 tgttctctc gctgcatcaa tggacatatc cgtttgtttt ctccaaggg attttaccat 420
 gtengtaatt tcgttcaaa 439

<210> 50101
 <211> 340
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-050-Q1-K1-F11

<400> 50101

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 ggatagactg cagatcgagg gtctggcagc ttgccgtggc agttgggtga ttacgactaa 120
 tagagatggg ctttctcgac aagctgtggg acgacaccgt cgcgtgccg cggccggaca 180

ccgggctcgg tcgncttcgc aagcagcctg tgcgttcgcgc cgccgtcaag atcagtgatc 240
 cgcccgggga cgctgcggcg ttcgtgccgc cctcgccggc ttcgggtagc gaggagacgc 300
 cggtgaaggt gactcgcatc atcatgatca agcgccccgc 340

<210> 50102

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-050-Q1-K1-F5

<400> 50102

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 cgcggttcgg gcttcgtcac cttctccacg gaggaggcga tgcggaacgc catcgagggc 120
 atgaacggca aggagctgga cggccgcaac atcacgtca acgaggccca gtcccgcggc 180
 ggccgtggag gcggcgggcg tgggtacggc ggtggccgtg gaggcggcgg ctacggcggc 240
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 ggctactgtg gtggtggcg cggtacggc ggtggcaacc gtggcgggcg ctacggcaac 360
 tccgacggga actggaggaa ctgagcggcg gggcccgcgc ggtcaagtta tcctgttcgc 420

<210> 50103

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-050-Q1-K1-G10

<400> 50103

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 aggcaatggc gtccaagggt gagcgggtgg tggagggtcaa gtccccggct gacaagctgt 120
 gggcgggcgt gcgcgactcc acggagctgt tccccagat cttccccgag cagtacaaga 180
 gcatcgagac cgtcgagggc gacggcaagt cggccggcac cgtccgcctc ctcaagtaca 240
 ccgaggcggc gccgatgctg acgttcgcca aggagaagct tgagacggcg gacgacgaga 300
 acaaggtggc gtcgtacagc gtggtggacg gcgagctggc ggacttctac aagaacttca 360
 agatcacgct gaaggtgact ccggccaagg cggacggcga gggcgggcgc gtcgtcagct 420

gggccatgga gttcgac

437

<210> 50104

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-050-Q1-K1-G11

<400> 50104

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ccgtggctgc aaaagcctac tagctcgggc tgccgaccg tctgcctgcc ccaacgaccc 120

tgtgaaatat gccgaaaact ggatgtacac ttccgtctac cgaaactacc ggtaatgctg 180

gcgggaatca attttgccag tattaaaaaa tctatcaacg cgggatggta ctctgttgtt 240

tatagtcctt gctgctaacc acccttggtg ctggtgctgc tggagaggca ttgtacctgt 300

ccatgcatat atgatata tatgttgtaa cgttgtgaaa gcaaacaatc ttgggtacca 360

atgtttgtt 369

<210> 50105

<211> 466

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-050-Q1-K1-G12

<400> 50105

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gcaagaatca gcaggccat tggtagatt tatcagcagg aacagaatta atagaaggct 120

acaaattacc tgaaaagggc agctgacctt tttgacagtg aggacagtc gtctcaatca 180

aacaccatca aacagaaagt tgcagaaatt gctgctcagt tggaacagta cccaaaagca 240

actgagatat ttgaagcgat cgctcgtcag tcaatcaaca acaatcttct taagtatagt 300

gtcagaggaa ttcttcttaa tgctggcatc tgtcaactat gtaaagggtga tcctattgcc 360

atcaciaatt cattggagcg ataccaggaa attgaccga ctttctctgg gacacgtgaa 420

tacaagcttt tagctgatct tgctgcatct atggatgaaa gggatg 466

<210> 50106

<211> 362
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-050-Q1-K1-G7

<400> 50106

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gaacttcctc ctcagcatcg tgtccggtgg ggtcgtgctc gttggtattg tcggcgccgt 120
cgtcgccgtc tccaacttcg accccgtcaa gagggcctga tcggaatcca tcgtatcgat 180
cgtctcgctt gtgtcctgtc ctgtgcctgt gctgtctgta tcgactgggtg gtgctatata 240
ccctgtgtgt taattgattt tggagaatgt tcagacgtat atctatgtct aagaaatgga 300
gttcgagtta aactttgctg agactttctt tgtctatata atattattag taggaatcaa 360
aa 362

<210> 50107
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-051-Q1-K1-A1

<400> 50107

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cagcctcact agggtttagc ggcggcggcg agatggtgca gcgcctcacg taccggaagc 120
gtcacagcta cgctacgaag tccaaccaga cccgagtcgt caagacccca ggcgggaagc 180
ttgtgtacca gtacaccaag aagagggcga gggggcccaa gtgccccgtc accgggaaga 240
aaatccaggg gatccctcac ttgaggcctg ctgagtacaa aaggtccagg ttgcctagga 300
gccgcaggac tgtgaaccgt ctttatggtg gactactctc tggaattgct gttagggaga 360
gaatcattcg tgccttcttg gtcgaggagc agaagattgt caagaagggt cctgaaa 417

<210> 50108
<211> 417
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-051-Q1-K1-A6

<400> 50108

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attgaaacaa aatctgctgt ggatgatcag caatggctca cgtactgggt gctgtactca 120
tttatcactc tattcgagct cacctttgct ccggtactcg aatggcttcc tttctggtct 180
tatgcaaagc tgttcttcaa ttgctgggta gtattgccac agttcaatgg agctgcacat 240
gtatatgagc attttgtgag gccaatgatt gtaaatacagc aagttgtaaa catctggtat 300
attccaaaga aggatgaatc aagtagacct gatgatgtaa tttcagctgc acagaggtag 360
attgagcaaa atggatcaaa agcggttgag aatctngtta acaagtttaa gagttcg 417

<210> 50109

<211> 464

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-051-Q1-K1-A7

<400> 50109

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tgccaccgt cgtgccgagg atttgtggat cgctctgtgt tcggcctoga cagaaactct 120
ggacgctcgg acctcgccgt ggacgctgat cgcctctgtt tttctctggt gcgcgccct 180
gtgettgggt cettgctagc agccgagcag ctcttcgcg ccgcagtgt acctcgtgtg 240
cgcgcctgc cgaagccct tacgactgtc ggcaactccc catcctctag ttgtgctgc 300
tgctggccct gtggtgagct ccctgcttca tctcgccat ggacgccatc tagcacgcgc 360
gcgcgggatg tatttcctcc ttcgcgcagt gccttggtga ctgtcgagta gcacaccagg 420
cctgcgcagc ctgctcgcgt ctgtatagcc ccagttgcaa tgca 464

<210> 50110

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-051-Q1-K1-B3

<400> 50110

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cggcgccgctc gtcgccctct ggctgacgtc cgtggctcgtg ggcgccatca acgccgtgcc 120
 gctgctcccc aagatcctgg agctcggttg gctcggctac accggctggg tctgtgtaccg 180
 ctaccttctc ttcaaggaaa gcaggaaaga gttggccgcc gacattgaga ccttgaagaa 240
 aaaaatagct ggaacagaat aaacgctcat ggaaagtgtt agagcgctct ttcttctttg 300
 gaaagagatc tattcgatcg gagaaccaat gcaactactt gagtactatt attgccaaaa 360
 a 361

<210> 50111
 <211> 396
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-051-Q1-K1-B4

 <400> 50111

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 tgccggcgcg tcctcgcca cggcgccgct gaaggcccc aacgccgcg tgcccgcggc 120
 cggcgtgtcc gcgcccgcgc tacttgcgct cgcgctggtg gggtttttg cggcggtatg 180
 gtgacgcgtg aatggtggag ccattcatccc ggcgaagggt gcggcgggcg gctggggacg 240
 aaatatcgcg cctgtttctt tgtattgggg ttctgtttta agctttgttt ttggccgtga 300
 aatagaaata gttgctgtac ttgttgagcc tgtgtttggt agagtcatag tgacgantta 360
 ttattactag cagtaccgag tctgtgatca tggccg 396

<210> 50112
 <211> 427
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-051-Q1-K1-B6

 <400> 50112

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 cgcaacgctc tatctctttc gccgagctcc gtgggaccct atgagcgtgc ttgaccggcg 120
 gcggcgaggt gatggcgatg gaccctgacg cggtagcgaa ggccttcgtg gagcattact 180

accgaacgtt cgacaccaac cgcgcggcgc tggttgggct gtaccaggag acctccatgc 240
 tcaccttcga gggccagaag ttccagggcc cctccgccat tgccggcaag ctccgatctc 300
 tccctttcca ggcttgcgag catcagatcg tcaccgtaga ctgccagcca tcgggtcccc 360
 agggaggcat gctcgtcttc gtctccggtt ccatacgcac cggccccgag gagcacccca 420
 tcaagtt 427

<210> 50113
 <211> 343
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-051-Q1-K1-C10

<400> 50113
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 gaagagtctt agcaattaca gttctcaaaa ttttaaattg caattttca gaaacctcgg 120
 cagccaactt tttgttttca tgtaacaaaa ttaggtccct aacaaaacga aggagctagc 180
 atcacatgat cactcttcct cttcgtcgtc accgcctcca ccagaagcct tcttttggtt 240
 cttctctctt acccttcag gttctccacc accaagtggg ctggtaagag agaagtcgat 300
 gtgcttctct gagtcaactc tcaccatgaa tganggaatg ttg 343

<210> 50114
 <211> 266
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-051-Q1-K1-C9

<400> 50114
 ttaccgttcg gaattcccgg ctctaccac tcgtctccc actcttactc tgactttctc 60
 tcactcttcg acgatgacct ttatcgtgat tatcgagaat attctactaa cactacgact 120
 taaaaactct aatacacagc acaaccgcaa cacaacatca ttatatatcc tactaccac 180
 cttatcaca acatctataa tatacacatc ccagatttta tccatcatcc atacattaac 240
 accttctact agttacctta cattca 266

<210> 50115
<211> 377
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-051-Q1-K1-G1

<400> 50115

aggacttccct cctcaccgcg aggaggaatg atgcccgcgc agtgaagatc aagaggagca 60
aggatgttgt caagttcaag gtgcgctgct ccaagtactt gtacacgcgc tgcgtcttcg 120
atgctgagaa ggcaaacaag ttgaagcaat ctcttcccc aggtttgacc gtcgaggagg 180
tctgattgga tacatggcaa cgccgggttg aactacccaa gcttctttat cagtagcaga 240
gcatgctact catgtacttt tggaacctaa gctattagac ctgtcagtgt tggatgtgtg 300
gatcttgcac ttttgtggag aaataccaat ttacctcggt caaggatgca aaanacacta 360
aaagagaaaa aaaanac 377

<210> 50116
<211> 147
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-051-Q1-K1-G10

<400> 50116

tatagatcct caaatgaagt aattacacag gtattaggtc gtggcaaccg attgtcaggc 60
aatcaggctg tatatgttcg atgcggtatc cggttgacga ccgtaagaat tatattttct 120
atttgtcttt tgatttggtt ttcctct 147

<210> 50117
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-051-Q1-K1-G3

<400> 50117

ggaattcccg gctcgaccgc acgcgtccga cgactcggtc gacatgatca tggactgctg 60
cactcgatct gaggcagcac gcgctcgggc ctgtcttgac gtatcagagg gcggacttct 120

aaagcatctt ccacactctg tatgcactcc cggataccat gcgactcctg gaccctactc 180
tccaccagtt ccttccacaa gggaacatcg actacattgt aactgaatga tctgctgaga 240
ccgtagccaa ccatgaggat accctcgcg cgaatcgacaa actttcaaaa gtaaacccaa 300
cgcttggcat ccgagactgc aggctcggtat tatcgtgccc tgcacgaca aagacgcaaa 360
ctccctccat ctttgaagct gctatcgcaa tgaccaacca aagtg 405

<210> 50118

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-051-Q1-K1-G4

<400> 50118

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gcatcctgta atagtaaaaa tttccccatt gttgtgatgt ccattgctga tgttttgcta 120
catattgctt atgcgtcaat tccttgctgc tgctgagggc tgcaaacttt caaaactagg 180
ctgcaagggtg gtgtctatat tgtaagctg aggaggctga aatgatttca atcgttgatt 240
atgcatttca gcgaggaaca caacgtcaga aaaggcaatt gttagttgaa ctgtactccc 300
ctgaacttca gctattcaag gatctgactg tgcaaagttc ctctgatac aatttccaag 360
cttgggttgc agatatcatc tgtcctgctt catatgacta ttgtgattga taaaatcttg 420
gagaa 425

<210> 50119

<211> 240

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-051-Q1-K1-G8

<400> 50119

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aagaactagg agttgcagga aagcggagta tgaccaaga agagacctca ctacaactga 120
ctggcccagt ggccctgctg cgcagcaatt aggggtcagc atacgaagcg aaacaacaga 180
tgatatgcat ggatatgcac aaaactgtaa taagagattg ttatttcaag aacatacgac 240

<210> 50120
 <211> 244
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-051-Q1-K1-G9

 <400> 50120

 gattccctgg tegaccact catcctccga ctcttccatc taccctcact aacatttgac 60
 tctaccatcc tctacgggac ccacgggctc ttctaccacc acttggaaca gtcctatgc 120
 ctactactct accacctctc tctcatcacc atcatcatca agcgcaagga cttctactac 180
 aactgatca ccagcaaca gatactcctc ataacatcac actactacat gcatcatatc 240
 cgtc 244

<210> 50121
 <211> 458
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-051-Q1-K1-H12

 <400> 50121

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 ttcgactgga gggaccacgg ggccgtctgc cccgtcaaga accagggttc gtgcgggtcg 120
 tgctggtcgt tcagcgcgtc tggagcgtg gaggggtgcgc actacctgc aactggcaag 180
 ctggagggtgc tttcggagca gcagttcgtc gactgtgacc acgagtgtga ttcacggag 240
 cctgattcat gtgattcggg ttgcaatggt gggctaata gaacggcatt cagttatctc 300
 cagaaggccg gtggccttga gaggagaa gattaccctt aactgggag tgatggcaaa 360
 tgcaagtttg acaagtccaa gattgttgct tcagttcaga acttcagtgt tgtgtctgtg 420
 gacgaggctc anatttctgc taacctcatc aaacatgg 458

<210> 50122
 <211> 352
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-051-Q1-K1-H8

<400> 50122

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tgcgcccccg cgatcatcag cgggtcgccg cccacggcgt cgtgctgctc caacctgcgc 120
gcgcaggagc cgtgcttctg ccagtaacgc cgcaaccgg cgtacagcag ctacatcaac 180
agccccaacg cccgccgcac gctcacctgc tgcggcatcg cctccccgag ctgctagggc 240
gctagctcgt gcctcgtggt gtggatgaat aaaaagatgc atgtcgatct ctgcttactg 300
ttatcgtatc tgtagtacct cgtgtgatat gaacaatatg tattatttaa aa 352

<210> 50123

<211> 342

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-052-Q1-K1-A12

<400> 50123

gtttttgccg agcccgtgat gaatcaggtg tcacataggt tcaggataag ttacaaggga 60
aaagtgacaa gtggacaaaa atggacaatg cacctcactc aatctcaatt tgctgatgtg 120
catcattttg atctgcctca cttgattctt cagagctgtt atcctcagct attccagaag 180
cctccaactgt ccgacttata cattccttga gaggatcctc attcaggtca agcctcaaga 240
ggccagcaaa cacaccaccc atgaatgcta ctggctcctt gatggcttct cggaggatgc 300
gctcatcccc gagagggttg aagaaagctc gcacgacccc tg 342

<210> 50124

<211> 275

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-052-Q1-K1-A3

<400> 50124

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cgctcgcgcc gctgtccgtg tgcgcgagct tcaactcgccg gccgcggcgc gtctgccatt 120
ccaagaacgc tttggacgaa gttgtggtgg cggactagaa gaactgggac gggttggtga 180
tggcgtgcga gacaccggtg ctggtggaat tttgggcgcc attgtgcggt cctgtccgga 240

tgatcgctcc tgtgatcgac aagctggccg ttgac

275

<210> 50125

<211> 354

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-052-Q1-K1-A5

<400> 50125

gccgacgacc ctgaggcctt cgcgagctc aaggtgaagg agctcaagaa cgggcgcgctc 60
gccatgttct ccatgttcgg gttcttcgctc caggccatcg tcaccggcaa gggcccgcctc 120
gagaacctcg cggaccacct cgccgacccc gtcaacaaca acgcatgggc ctatgccacc 180
aacttttgtgc cgggcaagtg agggggtgga ggcgccaccg tccaccggcc accgctgcgg 240
atatctaggt gttcggatgc acgtgagcgc gcaactggttc cagtttgtac catgatgtaa 300
attacttacc gtaccagggt tcaatcggca aggaagaatt gttgtgttca aaaa 354

<210> 50126

<211> 241

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-052-Q1-K1-C3

<400> 50126

gaaataacta catgcatctt ctcatcttct gtattgagta catagaacac ttgtgcagca 60
cgttctgcga gaacacgggt catgtttata ttctactttc tttaagtata ccagtgtgag 120
taccagtgtg gtccgtagtt attcattatc acccccacgg gatgttgtac ccattgacac 180
ttaaataaaag ggtattttca tgcttgggcc aaaaaaaaaa attgcaaaag aacaacaaaa 240
t 241

<210> 50127

<211> 238

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-052-Q1-K1-C5

<400> 50127

atgaggatgg attcctctac atgacctaca gtggtgagaa caccttcggg ctctctaga 60
 tgggtcacca caatcgggtc tgccttgccc ttgcttcctt actgatgcc tgcctcgtgt 120
 aaataagacc tgccaagcaa ttgtgtatat tctggtttcc tcgctcaact gctggaagtc 180
 taaaacctac cttatcatgg acaccgttta aattaagtaa ttgactggac ctgaaaaa 238

<210> 50128

<211> 342

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-052-Q1-K1-C9

<400> 50128

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 attgtcaacc aatgtgtaaa tcccatcttg aaaggataat cttctacaac aagagtcact 120
 aagcttgctg cattggcagc tctatgtgca caatacgaat cagagttcat gccaacatg 180
 agcatcgttg ttaaagcgtt ttgcctcttc cttcaacaaa gacctgcacc aaccaccgaa 240
 tagccagctc cacaacctgg gagctcatac cattcacatg tccatgcacc cctaggcata 300
 agccatctcc gaaaccattc aatcagcaca ttctataaat ca 342

<210> 50129

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-052-Q1-K1-D5

<400> 50129

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 agagctgggc cgggagcatc tcgatgttca tttctggttt cctgctgtcc gcgatgatga 120
 tgctctactt ctcaagcctg ggttacattg atgttatctg ggaagaggca cttggtaagc 180
 tggcgcttgt tgcactagca gcgacagtag tggagtgcgt tcctgtgacc gaagttgtag 240
 atgacaacat atctgttctt ttggccacca tgctggtagc ttttctcttg tttagctcca 300
 accgcacaat agttaattaa aatactacta gtgcattatt taagacatgt gatgagttct 360

tcaaaa

366

<210> 50130
<211> 451
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-052-Q1-K1-F3

<400> 50130

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cgatgttgtc atcgctgata aggttgctcc tgatgctaac agccagattg ttccagcatc 120
tgcaattcct gatggttgga tggggctgga tattggccca gattccattg ctgcattcaa 180
cgcagccctg gaaacaaccc atactgtcat ctggaacggg cccatgggtg tttttgaata 240
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gggtgtgaca actatcatcg gaggtggaga ctctagtccc ggctttgaga atgtctgagt 360
tgctgacgtt atgagccaca tttccaccgg atgtggttcc agcttggaaa tgttggaagg 420
taaggagctt tcaggagtta ctgcattgga t 451

<210> 50131
<211> 168
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-052-Q1-K1-F4

<400> 50131

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gccgagtact accggatcat caacggactg gacctcgagg acaagctgca ccccggtggc 120
cccttcgacc ccctgggctt ggccagcgac cccgaccagg ccgncatc 168

<210> 50132
<211> 358
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-052-Q1-K1-G1

<400> 50132

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agctatataa gaccaaactc gtggggacca acgatgagct gatgatccat gccaaagctcc 120
caattgatat gcagccccgc aagggtgtacg actaccggga gctgttaccc tagatatctg 180
tcatgctctt ctacagcatg aacaccatcg atgtcgacga ggtcacggtc gatatcgtca 240
agtttcagaa gctcacagac gaattgacaa tgctgaacct aatgggacag atacctgcga 300
ctgttgacga cagattcaaa ctattttaaa gcaatgcgat tttcaggtat cttgcata 358

<210> 50133

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-052-Q1-K1-H12

<400> 50133

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accataaccg aaggcttaag cctaacccca accaaaggca gaacctaagc cagagccaaa 120
gctgagccga aaccgaaacc agatccaaag ccagagccac aaccaaagcc agagcctaag 180
ccagaaccaa aaccagagcc caagccagag cctaagcccc aaccaaacca gagccaaagc 240
ctgagcctaa acccgaacca tgaccagaac cagaaccaa gccagagcct aaacctgaac 300
caaaaccgaa accagaaccg gagccacaac caaagccaga gcctaagcct gatccaaaac 360
cagagcctaa acccgaacca aaaccagagc cccaaccaa accagaacct aagcccgaac 420
caaaaccaca gccagaacct aagcccgaac c 451

<210> 50134

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-052-Q1-K1-H9

<400> 50134

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aacgattcca tccattcca tttccatttc caccagcac acgtgcacag caaaacgtct 120
ccttttggcc tcccgatgca aagtttgaaa aggctcgtcg acggatttgg gtggtcgtag 180

ccgcccgcgc gccgccggac tggtcagcaa gtgcattcct tcatttggtt tgctattctc 240
 gttgcatgcc tgtatatgca tcgtccggtg tctcctcaaa ttccacttgt actttgtgtg 300
 attttgatc aaactattct ctttttttgg gattcgatta taaaa 345

<210> 50135
 <211> 308
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3078-053-Q1-K1-A1
 <400> 50135

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 cacctgagga agcctacact gtacctcatg gaacgaaggc accatgtgat cgcaaacgca 180
 tgcttcgagc taaacatgtn cggatcgtc agatgacggc tacggctaaa gcgaggaggg 240
 taccatcttc aggtacgagg acgtgcccag gaacaaccag cacgcgctgg tcataacgct 300
 tgcgcaac 308

<210> 50136
 <211> 523
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3078-053-Q1-K1-A12
 <400> 50136

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 aaccagtttg aatctttgtg ggtgannaaa gtgagccctg cagaatcgcc gggggagaag 120
 cgtggcnct tgtgatctca tccatagngt gaagaaattt ctagtagtcc ccttgggacc 180
 tagtattnng attaagtgcc taccctnngt ttataatcat tcntnntccc agaccacggc 240
 tttgagaatn gctttttgac tttggcttgg cattcanngc ttgtgatnnc agagctgata 300
 gtnntcttcg gtaccttcca tcttcataat cannggatgg nnttgatcaa gtcagaattc 360
 atcttcagat gttccaaga ctgaaaaagg aatttttggc tctgtgtact nattagggaa 420

attctttgag agattagnca cttaaaattc ctttgaatac aatccccctt tctcgatgta 480
cccttctata tataatcgta ttgcttgatt catctacatg ttt 523

<210> 50137
<211> 404
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-053-Q1-K1-A5

<400> 50137

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gcggcctcat ggactacgcc ttctcctaca tcgcacacaa cggcggcctc cacacggagg 120
aggcctaccc gtacctcatg gaggaaggca cctgccagcg cagcagcagc agcgagaaga 180
agtggccggg atcgtcggag gacgccaacg acgatgccgc ggtggtcacc atctccgggt 240
acgaggacgt gccgaggaac aacgagcagg cgctgctcaa agcgtggcg caacagcccg 300
tcagcgtcgc catcgaggcc ttccggcagga acttccagtt ctacagcggc ggcgtcttcg 360
atggggccctg cggcacgcag ctggggccacn gggtagcggc cgtc 404

<210> 50138
<211> 386
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-053-Q1-K1-A8

<400> 50138

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caacgataga gacatcaagt tgtgtgcacg gtgtactctg attcgatga actatgcatt 120
tgcctatgga caaggaatct gagtatttaa gaactcacgc ctgctgtaca tgtaccatt 180
tatttggtt ttctactttc cacacgccgg agcatccac acgcgagatg ctttgtggca 240
tgccttgaat ttgaatatac ttcaagctcc atccacggag acgcttacca tttgttatgt 300
gtgtcatcaa agattagga ctcaatatct tgcaccacat gatcatctat ctcaattctc 360
agggtagagt tatgacccaa cttgac 386

<210> 50139
 <211> 235
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-053-Q1-K1-A9

 <400> 50139

 cgggtctcgga attctccggg tcggaccgca cgcgtctcgg ttgggttcta ctatcacgac 60
 gacaatacat ggtggaagct ctgcgaagaa tcggagagtg gggtagtgta cgctcggcag 120
 atcgggtgggg agtctgaggg ctactctcgg acacggcttg atcgagagtg aagagtcacc 180
 ggccggacat acaagcatgc tgctatcccc ctcgcatcta cttttcatct taaaa 235

<210> 50140
 <211> 334
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-053-Q1-K1-C11

 <400> 50140

 acctggggcga cctgggttgg accgcctagg ctgctaacct tgcttttggg gcgcactgtg 60
 agtcatcgac tctagtcata cttactgtg atgggctttc ggtctcttac attttatggg 120
 ttgagaatgc ctctgatgtg atatgcaact ggcttgctgc tattaggcat gatgggctgg 180
 ccgggcaa at ggtctacata tgcttctact tctgtggcat atcattcctc atctgtatcg 240
 ctgatagagg catggacctc gtcttagata tactaggtgt gccgacgtgc acggagatgt 300
 agatgagcat gccatattga tcgatatata tttt 334

<210> 50141
 <211> 385
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-053-Q1-K1-E1

 <400> 50141

 cggaattccg gtcgaccag cgttcgccag cgtccgcca cgcgtccgcg gcgagctctc 60
 taagaggctc ggtggaacta ccatggggcc atcaggggaac ttgaggagaa gaggaacgag 120

aaggtcaagg ttgcctacga gaggaagaag caattggcca agctgcgtgt caaggccgag 180
aaggcagccg aggagaagtt ggggtctcag ttggagattc ttgcccttat caagtactga 240
ggagctgtgc tttgtcatca gttttgggga acatctagtc tttggtttaa gtgttctgta 300
acagtttgtg acagtataat ctggaaaacc gtgttataat tctgccactg ctatttgaac 360
acattttcta gctggagaat gaact 385

<210> 50142
<211> 238
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-053-Q1-K1-E12
<400> 50142

gaaactagca ctgaagagcg agattgttcg cttcagatta aaaatggctg tttagactgg 60
tatagttata atttattgag acaaactatc acagagagtg gcctgctcgc tgatgctcca 120
tccacatggt gatttttggt ttgggtcgtc aaagcttggc ccgctcatcc tcaactttgc 180
attctgaacc tatgttctct tctccaacc acagaaatgc atctctgtat gtatcgat 238

<210> 50143
<211> 242
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-053-Q1-K1-G5
<400> 50143

gacggacaca ctcgtataca taactagcca catctaatac gcgcaggcag gctcgggggc 60
tcatgccacc aatggcaagg gatggcgata cgcctcggag cggcaacagc tcaggggttc 120
gcgggaccgg ctgacaagaa gcaatgcgac ggcgtcacgc acgtggtgga tatgaacgat 180
tacagtgatc taaatgggct caccaagggtg aacatgctag gagtgcgcat gaccgtctac 240
ta 242

<210> 50144
<211> 502
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-053-Q1-K1-G6

<400> 50144

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ggcgacttct acggctgctg ccaactgcact gctcggcccc aggccggcag ttccagccaa 120
gttggcgagcag aggaggtgcc tccatgcggg tgctgggtgg acgacgatga ggaggagggg 180
agctgcaggg gtcgtgcgag ctttcttcaa ccctctcggg gatgagcgca tcctccgaga 240
agccatcaag gagccagtag cattcatggg tgggtgtgtt gctggcctct tgaggcttga 300
cctgaatgag gatcctctca aggaatggat aagtcggaca gtggaggctt ctggaatagc 360
tgaggaaaac agctctgaag aatcaagtga ggcagatcaa aatgatgcac ctcagcaaata 420
tgagattgag tgaggtgcat tgtctacttt tgtccacttg tcacttttcc cttgtaactt 480
atcctgaata tatgtgacac ct 502

<210> 50145

<211> 246

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-053-Q1-K1-H1

<400> 50145

gaattaccag ctcgaccac acgtccgctc acgctgccaa gtacgcttgc catcgatgac 60
attatgaaag tatataccgg cgctttgagg ggagactatt atcagcagcg tgggtgtgcta 120
cacctacact tgcataaaaa actggacttg taagagatgg aaaagatcgt agctaactga 180
tcaccagaa gaaggccatc catgagccgg acttgcacaa tcccaagctc gagacgccta 240
atccta 246

<210> 50146

<211> 139

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-053-Q1-K1-H2

<400> 50146

ccggaattcc gggctgaccc acgcgtacgg aaatatgtgc acgtggagtc tgtagctaca 60

ttgaaccctg ggaccatata gaaccctgtc gcagcatgca aataggaggt gtgacctaag 120
aagctaactt cgatcgaca 139

<210> 50147
<211> 323
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-053-Q1-K1-H5

<400> 50147

cttacggacc gtacggcagg gacgaggga ccccggtccg tgtcaagggt atgaacaacg 60
gccacgtcgc tggcttcttt ggccgctctg gagattgect ggacgcgacg gggctctacg 120
tgaaccccaa ctaataacta aaacgatgga tcggatcacc tgcacgcatg catatgcagt 180
atgcatgctg cttgcctgcc tgtaacgaat atgaatgcat aaaataacgc ccctgctgct 240
cccatgcacg agcagtgtgt accactatgg tatatatata tatattatac tgggaatttcg 300
ctaaccgaat aaaaacatan att 323

<210> 50148
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-054-Q1-K1-A3

<400> 50148

taccggtctc ggaattcgag ccacgcgtcc gtccacgcgt ccgacggatc tcagttttac 60
ataactacta tcaagacaag ctggttggat ggggagcatg ttgtcttcg cagggatgatc 120
caaggaatgg ataccgtgta cgccatagaa gggggcgctg ggacttataa tggcaagcca 180
aggaagaagg cggatgacac cgacgctggt gagataccca aggagaaatg gggatgatcag 240
gaagcgtagg gtgttttcta cttcttgta cttcaaatac aggtatgcat gtacttcttt 300
tttccttgac ctccatggtg tgccacggtt cagcaagact tccggaatgt tgtatatcgt 360
agctagctta tggccagtcg aattgactct gatcccttga gttgtgatgt ggagacgcat 420
acatctgaaa aatctt 436

<210> 50149
 <211> 311
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-054-Q1-K1-A6

 <400> 50149

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 gtctcagatt tgaaggatcc aaacaagaaa ttttaatttta ctagatttga aaggaattgg 120
 tttgagaagt aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aataaaaaaaaa 180
 aataaaaaaaaa aaaaaaaaaa ataaaaaaaa aaataaaaaag taaataaaaa aaaaatatat 240
 aaaaaataaa aaactgttga cgaacaatta gaagatagta aaaaaatata attgaaacaa 300
 aaaaaattgg a 311

<210> 50150
 <211> 406
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-054-Q1-K1-B1

 <400> 50150

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 atttgggtgca tcaactgtatt tcctggcaaa gaaaaatatg aacttaggta aggctgcatt 120
 gatcactgtc gggggacttg cagctggtgc aactgtcggg tctgcagtgg aaaatttcct 180
 gcaggttgat atcgtgccct ttctaggcat ccactcccc gccgtcgttg tcagtgaatt 240
 tattctgttc tcccagttgt tggatcact gtttgtttagg taggatctga aatcaagctg 300
 tcatcctgat catggcatgt aagtaactga aatgggtcgt gttcaaactt caaagggtca 360
 gggaaatgct tattttccgc tcaagggtgca agcagctgtg tatagc 406

<210> 50151
 <211> 60
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-054-Q1-K1-B12

 <400> 50151

gtttggagac tacgtacgcc tgaagcaata gcaactttgc gagaaaaaga aaaaaaagag 60

<210> 50152
<211> 364
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-054-Q1-K1-B5

<400> 50152

tcccggtcg accacgcgtc cgtgtatcgt gcgcgcacac tttagctttc acccaacggc 60
atcaaattat gggaggccgt gtctttcaag accgaatacg acatctttaa tgattacttg 120
ctttactacc tctggaacct aagcctcatt cacacacaga tcatcattac catctgagcc 180
taacagggtg ttctgatggg atctggtgat cgctaccata atctactttg cccgtatcat 240
gaggtcgtag acccgttcta cctcctgctc agctacgacc cgctcgggct tgatacgacc 300
tgaaggcctt ctctgagctc aaagacaatg agctcaagaa ctgtctactc tccatgatct 360
ccat 364

<210> 50153
<211> 332
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-054-Q1-K1-C7

<400> 50153

gaacggcaag acgcacttcg acgccggcga cgagcgcgcc aaggagttct ggggcctgct 60
caagtccaac gaccccgtag gcttcaacct cgtcgacgtc ctgcctggg gctcgctcgg 120
ccacatcgtc gctactaca tctcgccac ctccagcaac ggatacgacc ccaacttctt 180
ctgagcggcc ggctgcgggc atgttcttga gctgctgtg attctactcc gtgtgtgttg 240
agccatatat ctgatgctca aggattggtt aatctgaaca agtggtgcaa ctgcgcgtgt 300
acatggattt gctcttctc taaaaagaaa ct 332

<210> 50154
<211> 475
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-054-Q1-K1-C8

<400> 50154

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ttgcgagtga aagggttgga aatcagggag agggccgaag atgggaactg tcgattcaga 120
gctgttgctg atcaagttta tggagacgca taagcttatg acatggctag gcagatgtgt 180
gttgattata tggaaaggga acgggatcat ttctctcagt tcataactga aattgaaagt 240
tttacattat actgtaagag gaaaaggaga gataaggttt atggcaacaa tgttgagatc 300
caggcatttg cagagatgta caatcgtccc attcacatat attcctacag tacagagccc 360
attaatattt ttcaaggaag ctataacaca gacgttcctt caattagatt aagttaccat 420
catggtaatc attacaattc agtggttgat ccccgactgc agacagttgg ggcag 475

<210> 50155

<211> 101

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-054-Q1-K1-D12

<400> 50155

cagcagttct ctgctggatg tgatgtattc attgttgcaa tcatggccgg gcattggcga 60
cctctatacc tgctacaaaa ctactgcaac gcctataaaa a 101

<210> 50156

<211> 309

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-054-Q1-K1-E3

<400> 50156

cggaattccc gggtcgaccc acgcgtacgg gatcatgaca tgggggagga aggctgtcta 60
tttggccagt ctcacctgat tggcgcgggc aggggtgattt atactttgtg cagagagaga 120
agatatggag tcgacaggaa agattttgat ggagcgctat gaggtgtaga ggctactggg 180
gaaaggcaca tttggcaagg tgcactaccc agagaatctt gagtccaacg agagtgttgt 240
cattaagatg atggacaagg acaaagtgct caaggccgtg ctttctgagc agataaggcg 300

ggagatcac

309

<210> 50157

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-054-Q1-K1-F6

<400> 50157

tatggaacca gacatttgat ttcattgtag aagatgcact gcatgatttg cgcattggtg 60
aagtatggga ccatgataca ttgggaaagg attacatagg gaggtgcatc ttgacactga 120
cgagagttaa actcgaaggt gaattccaag atacctttgt cttgcaaggt gccaaatcgg 180
gaaaactaaa cttgcatttc aagtggacgc cacagccaat ctatcgtgat cgtgacaggg 240
atcagtgaga cttgtaaacg aaaaaggccg ataaacactt atccccaacg gtgctatgta 300
tattagtcgt tctgtattta caaaatccca cggttcttat agccacgtga ccaaaaagag 360
atcaaccacg cgacctgtat tttctccttt gtgatgcaag tcagcaagtg catggacctg 420
tatatttgag tc 432

<210> 50158

<211> 470

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-054-Q1-K1-G10

<400> 50158

gaatatcccg gctcgacgcc acgcgtccgc ggacgcgtgg gcggactcgt gggcgggtttc 60
gtggggccagg acatgcggag agctcgaggg tggtagggta tgacgtgac taaccaatgg 120
tgctgcgacg tctgacggaa taacagacag gtgacgtgct tgccgactca gacgacgtgc 180
gccaacagga acgagtacct attatgggac gctttccacc ccacagaggg ggtcaacata 240
cttgtcggtc ggagggcgta cagcgcgtcg ctgtcatccg acgtccaccc catggatctg 300
cgcacgctag ccaggatcta gctgtatgga tcatgtaaac tcgctaagag aagcacagct 360
tacagagtct tgctttgcac agtgctttgt atccctcgt gattgtattg cttaccactc 420
gctaattggac gtatgggtccc tacatctaaa ctatttatat aaacatgata 470

<210> 50159
 <211> 471
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-054-Q1-K1-G4

<400> 50159

cggaattccc gggtcgaccc acgcgttcgc ccacgcgtcc ggaccacagc cagtcatcca 60
 catcactagc tatctgtgca aaggcagtggt cgtccaaggt tgacctgggtg gtggaggtca 120
 agtccccggc tgacaagctg tgggcggcgc tgcgtgactc gacggagctg ttccccaaaga 180
 tcttccccga gcagtacaag agcatcgaga ccgtcgaggg cgacggcaag tcggccggca 240
 ccgtccgcct tctcaagtac accgaggcgg tgccgatgct gacgttcgcc aaggagaagc 300
 ttgagacggc ggacgacgag aacaaggtgg tgcgtacag cgtggtggac ggcgagctgg 360
 cggacttcta caagaacttc aagatcacgc tgaaggtgac tccggccaat gcggatggcg 420
 agggcggcgc cgtcgtcagc tgggccatgg agttcgacaa gccaacgacc a 471

<210> 50160
 <211> 301
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-054-Q1-K1-G8

<400> 50160

cggacgcgtg ggtgcatccc aaatgtgtga tgtaaactga gacagaacag cagccagatg 60
 aagcagagat ttgctgaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaga aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaagaaa aaaaaaagaa aaaaaagggc gaccagctgt 180
 ataggatcca agcttcata cgaatgcatg ctacactata atattcctat agcactacct 240
 aaactcatgt aataggccga cattaaaaaa ctggtctact ggaaaaacct tgacgggtacc 300
 t 301

<210> 50161
 <211> 392
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-054-Q1-K1-H6

<400> 50161

gggtatcgtg cggcgggtgga tggcaacgat ctctgatga acctgggatt ctcccaccct 60
gttcggatgg ccattcctga aggcctggcg gtcaagggtg aggagaacac aaggatcacc 120
gtgagcggct atgacaagag cgcgatcggc cagtttgctg ctaccataaa gaagtggagg 180
ccacctgagc catacaaggg aaagggtatc agatatatgg atgaagttgt ccgaaggaag 240
gaaggaaaag cggggaagaa gaaatagaaa gtgttttttt tttgcctttc cttacttca 300
tttcattttt cccactgtaa tgatcttcgt ctgctaaggc tgaacctaa gaaaaatattg 360
ttctgtgctg atcatggcat atagatgtaa aa 392

<210> 50162

<211> 141

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-055-Q1-K1-A3

<400> 50162

ccgaattccc ggctcgaccc acgcgtacgc gcaactcgtg tgctaataac tacagatggt 60
tgggcttcaa gacctgacct tcaaccgtgt tgacctggtc ttaaataata acctcccaat 120
taatcttaac cttaacttcc a 141

<210> 50163

<211> 101

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-055-Q1-K1-A4

<400> 50163

ggaattcccg ggcttgcga actcacacta agcttagata agtgctgggt ttgtgggaac 60
atcgtttctg caatataaat gagatgggtg acctacaaaa a 101

<210> 50164

<211> 322

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-055-Q1-K1-A5

<400> 50164

gaattccccg ctagaccac gcgtacggcg cggatcgaca cggccacggg gacggccgtg 60
ctcgcgctcg tcatactggg gctctccaac gtcgcgtcca acgtgccgac ggtcctgctg 120
ctgggcgcgc gcgtggcggc gtcggcggcg gccatctccc ccgcggcgga gaccaacgcc 180
tggctcatcc tggcatggac gagcacggag gccgacaacc tctcgctgct gggctccgac 240
gccaacctga tcgtgtgcta gcaggcgcgc cgtctccagc agtacggcta cacgctctac 300
ttcttcagcc acctgcagtt tc 322

<210> 50165

<211> 191

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-055-Q1-K1-A7

<400> 50165

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cccagcagaa gaagcgaagt ggtcggggga gcacgaggaa gagcgagcag caagatgtcg 120
tggcaggcgt acgtcgatga ccacctgctg tgcgacatcg aaggccagca cctgagcgcc 180
gacgccatcg t 191

<210> 50166

<211> 256

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-055-Q1-K1-B11

<400> 50166

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acctgctaata gatggtctgg ggtgaatgaa gaggtagatg gaaacagaac agaaggctgg 120
ttgtttgtag tgaaacactg aatatggtgt tgagctattc atattcattg gttcaatttt 180
ctccatagca ttctagaata gagtatttga tggttggtga aacttcgctc gcaaaaaaaaa 240
aaagttgttt ggatcc 256

<210> 50167
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-055-Q1-K1-B8

<400> 50167

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ggtggtcagg ggcttcgtcg agggctaccg cgtcggcggc ggcccgtcg gggaagggt 120
cgacaagggtg tccccggcg gcgccttcga cccgctgggc ctgcgcgacg acccggaac 180
cgccgcccag ctcaagggtga aggagctcaa gaacggccgc cttgccatgt tctccatgtt 240
cggtctcttc gtgcaggcca tcgtcacccg caagggcccc atcgagaacc tcttcgacca 300
cgtcgcgac cccgtcgcca acaacgcctg ggcatacgcc acgaacttcg tccccggcaa 360
ctaactgact gagcaacgcc gtacatgtgt actaccatca gatccatcca ttcgttcgtc 420
cgtccgtcta gtgaacagtg tggctcttc 448

<210> 50168
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-055-Q1-K1-B9

<400> 50168

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ccacacgtcc gtgtaggagt gcgaatacgc ttagttcagg ccgctggctt gggtgtatgt 120
gcctttgatc agcagctaga atctggtgaa cgagaagtag cttgagaccg acaacggaga 180
tctggccgac aggatatggc cggacttaag gagccgatcg aagccaagta acggctcttc 240
gacggaaatg acattggaca caccaattac gatccataga gcacagtctg ctcaactcaga 300
tgagtaatga ctagatctac ggccacatgc tcatcaatgc tggcatgata ttggagaata 360
atcagacact ggtagagctc cgagttccag tcggagacga ccgagtaggc tgcatta 417

<210> 50169
<211> 373

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-055-Q1-K1-C9

 <400> 50169

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 gggttctaccg cctgctggac ttcccatggg accccgacgg catcaggggg atggcatact 120
 accgcaagtc cgctactacc gccgcttgat tcgtctcgtc tgtcttgtag tcattcatca 180
 atgaaggaag tcgatcgaat tccctaaagc ccccatgtt tgtatgatgt agatatgaca 240
 tgggtttattt ttatcactca tctcatagtt gctcggttat tatctttcat tttatatcc 300
 gcgaaaacga tctagctaga acatgtactt atatttcgcg caaatcaagc aatataaaaa 360
 cctcacttca aaa 373

<210> 50170
 <211> 386
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-055-Q1-K1-D3

 <400> 50170

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 ctttttagcat ggctgtctcg gcgttcggca gcaccgtagc ggcgcccggtg gcggcgacct 120
 cggggaggac gcggccggcg cgccgggtccg tgctgggtcgt gccgcccgt gccagcaggg 180
 gcggcccggc gccggccaag gaggagaagg gcctcggcga gaccatcttc ggcttcatct 240
 tcaagaagga ccaactggtg gagacggacc cgctcctcaa caaggtcggc gccgcgccgg 300
 ccgccgnctc ccgcgccaag acgaccgccg gcaagaaggc tgccggcggc gacgacagcg 360
 gcagcggcgg ggggttcaac ctgggc 386

<210> 50171
 <211> 420
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-055-Q1-K1-D7

<400> 50171

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ttgcaatgtt ggaagaaagc aaggagctta catcatcaac aagatggagc aaagcaatac 120

ttatgtttga agatgatgaa agattcaaag cagttgagcg tccaaggag cgtgaagatt 180

tatttgagaa ctatcttgtg gaactgcata agaaggaaaa agccaaggct gctgaagaac 240

acaaaagata tgtagcagag tacagagctt ttctagaatc atgtgacttc atcaaggcaa 300

gcactcagtg gagaaaagtt caggaacgcc tggaggacga tgaacgttat tcccgacttg 360

agaagtttga tcggttggat atttttcaag agtacattcg acacctagag aaagaagagg 420

<210> 50172

<211> 381

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-055-Q1-K1-E4

<400> 50172

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ctgtgtacaa ccctgccaca atgtttggaa ttcatgtcac ttctggcccc atccacctga 120

tgtattcaga gatcccaata gcagtcggtc aggttcggag gtattaccaa ccgaggaaga 180

gccaccggat ggtgactgcg gtcacccacg gcgagaaggt gccgctgtac ggcgccgggg 240

gcagactgat gctgtcgacg agcacgggcg gngcgggtgcc cctgacgctg gactaggacc 300

tgaccttgac gggctacgtg atcggcaagc tcgtgcggtg gacgcacaaa gtgcacgtga 360

cgtgcctcgt cgtcgtggac g 381

<210> 50173

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-055-Q1-K1-F9

<400> 50173

cggaattccc gggtcgaccc acgcgtacgc ggacgcgtgc ggtggatctc cgggagattc 60

gtaggtgcc aagcagcacg gagctgagga cacggaacct ccctataagg gcctggaaac 120

ggagatcgct ctcaactgcc agaccgatct caggttccag tactccaccg actgtgttct 180
 gtatgaggcc gtctaagcgt acctcgtggg gctctttgat gacactaacc tgtgcgccat 240
 ccactccaag cgcgtcacca tcatgcctac tgacatccaa ctgcgcacgc gcatcaacgg 300
 agacaaggcc tgaacgatgc gagctcatct cactcaaggc cccgtagttg ctgatgctta 360
 cctgctagca ggacttgtgc tcatcgcggt tacctttgtg ccatcaacga catcttcgtg 420
 ccactgtgct tgctcttaga at 442

<210> 50174

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-055-Q1-K1-G1

<400> 50174

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 gatggagcta tctaactaaa ggtaggtat aaggatctag aatctcttct ctgcaacaaa 120
 ggtgatgagg agtactctaa gtgttcctgt ggctggaggg cgtttccagt tctggaggaa 180
 gactagttag gctagtgtat aagctttgga gggttcctac cgtcctgctt ttgtaataag 240
 ttatgcattt tgagtatata aggacttgta ataaatgtaa ctcttactat gtgtcaaacy 300
 atttttgttt gatttcaaac ttaccagag tatgttcaag gtaatttggc accaaaa 357

<210> 50175

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-055-Q1-K1-G11

<400> 50175

gaccacgcg tacgcggacg cgtacgccta caaagcctga aggtcaccgt ttactgcacc 60
 ggctactgga aagagcgtga gctgtccaac aaattctgca gcaccaagga ccctgtgcag 120
 cagccattca gtttcagcat tggtcagggt tcagtgatca aaggatggga cgaggagtt 180
 atgaccatgc aagtgggtga agttgctcgt atccagtga cgcttgatta tgcttatgga 240
 gccggcgggt tcccagcctg gggaattcaa ccaaactcag tgcttgcgtt cgagattgaa 300

gtactcagtg cccagtaatt cgcactctgtc agctatggaa acgttggcca tgcttctcaa 360
gtaatgaaat aattcccgtg tcacctcatg ctacatacag cagattgggtg t 411

<210> 50176
<211> 352
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-055-Q1-K1-G12

<400> 50176

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tttaggctca aggaggaccg cacagatgga ggcgaaacagc ggctgccgga gggaccatcg 120
cccgccggac ggcgttggct ggcgaggcac agtcgacgcg gcaaaggcgg cggcaggcaa 180
ggagcccgtg agccccggca ctccgtcctc ggtggccgcc ggccgcagca gctgtgagga 240
gaggcgcgcg gtggacggcg tcgcctgcc tgggtggaag ctgcagccc tctgccagga 300
gtcctgcccc tcgcgggcca tgagggcgcg ctttccctac tacttctgaa gc 352

<210> 50177
<211> 361
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-055-Q1-K1-G8

<400> 50177

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accttcctcg gacacaacat cgtcgacagt cagcacctac ttctatacct agctgtgcta 120
tcactttgag tcagtctatc cattgtttgc tcccagtctg gtgattaaaa gtctgcaaat 180
tctgtttgcg gaattggcat gcgatacaaa ttaggcttct ttaagtaaat ccggttgccg 240
gtacacagct gtattaattc acctgtcact gaatggaata ccgagatgca aaaggcacat 300
cactatgcct gactaaaata acacggtgaa ggttcagcct tgctgtgggt gctaaacaaa 360
a 361

<210> 50178

<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-055-Q1-K1-G9

<400> 50178

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tcagttacta cgcccaccta tgtttaacgg tgtagacctc acatgaagtt aaaccagcct 120
ggagtttcat atcccatgca tgatgctgtc cataggtttt caaccacat gcacccattt 180
gggtgggcta atcatctgga tgaatcatgc ccacctcata tgcaagtttg gaatggacgc 240
agtagtgtgt ttccgggtga accctatatt tacggtagac aagagtggga tcagaataga 300
cctcatggcg gcagcagatg gtgggagctg actggtgata tatccaagg accaaatgat 360
gtgccggatg ctgaacttct gatagctaag aaagatcctt actctgcaat aactgctgta 420
tctgattctg gtggacaaca taatcttcaa cc 452

<210> 50179
<211> 474
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-055-Q1-K1-H1

<400> 50179

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aatagtaatg tcacattaca cttggcatag tgtgagagaa agttctaggg ttaccaccaa 120
gcatactttt gcaactttat cattcattgc agaaattttc cttttcctct atgttggcat 180
ggatgcattg gacattgaga agtggaaatt agctagtaac agtcctaata aaccaattgc 240
tttaagtgca attattttgg gcttggttat ggttggaga gcggcatttg tattcccttt 300
gtcgtttotta tccaacctaa gcaaaaagga agcccgcca aagatctcct tcaagcaaca 360
agtaatcata tgggtgggctg gtctcatgac aggagcaatg tcaattgcgc ttgcctatga 420
cacgtttaca gcatctggtc aactgaaat gcgagtcaat gctatcatga tcac 474

<210> 50180
<211> 222
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-055-Q1-K1-H11

<400> 50180

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tttcttccta acttgccgaa agtagggatga ggatagactg caacgctgtg cggcgatctc 120

atactactac cgtcctgtcc tgatccagct caccaacatc ctagtcaact gcaagcaatg 180

cttaacccaa gctgactacc ttgaacttaa agatgatcat ca 222

<210> 50181

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-055-Q1-K1-H3

<400> 50181

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ccctctcccc gcgcgctgcc cttccgcgtc cgggccagta gggcagcgcg gcgtccggcc 120

ttcgtctgcc gctgcagatg ctccccggac gcgtaccgag tggccaccg gcggctgttc 180

gcctgcctac ttgccaccgc agcagctgtg ggaggtggcg tggccggagg cggacgagaa 240

gccggcgagcag tgteccaccag ccagacggca ctcatggcgt gcaagattcc tgagagcgaa 300

ttcaccacgc tgcccaatgg cctcaagtac tacgacatca atgtacgaag tgatgctcaa 360

gctgataaag gatcccatgt tgcggtacat tatgtggcca agtgggaagg catcacattc 420

atgacaagtt ggcattgtct 440

<210> 50182

<211> 99

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-056-Q1-K1-A10

<400> 50182

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ttgcttgcca caatatttag gggcagggtt cactggcta 99

<210> 50183
<211> 254
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-056-Q1-K1-B1

<400> 50183

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taccttgata tccgttcctg ttataggtac ttctttggaa gtatcaaata ttgtttacaa 120
aaatgcttag ccctgcttag atcttgtgga tagagggttg cttttgcatt aatgcctagc 180
tcanggggta tcttgaggaa agaaggcttc tacctgcaag aatattntca ttgggagcat 240
ggtgggatct tact 254

<210> 50184
<211> 183
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-056-Q1-K1-B8

<400> 50184

tacacacgta ctatcccagc ttttctttat caatatgtcc gactattttc tttcagggcg 60
gagtacaata tgcgcgactc tcgacacatt acttatgagt aactttacaa atcatagcc 120
agaaccatat cttttctcta tacattgctc aacgcacttt cattgactat acaccaataa 180
tgt 183

<210> 50185
<211> 349
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-056-Q1-K1-D9

<400> 50185

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aggattcaaa aaagcttatg ggggagctat gctccaaaat aaaggtgggt gatagatgtg 120
aagttatgcc tgttgccaaa aggggcactg taaaatttgt tggtagagct caagcccttg 180

gacgtggatt ttaggctgta atgcagtatg atgagccact tgtgaagcat gaccgcatgg 240
 tgaaaggcat ccgcttcttt gagtgccttc aaggatcatgg ggcattcgta aggccacaga 300
 aagtaaaggt tgtcgactta ccggatagag acccttttga agacgacga 349

<210> 50186
 <211> 197
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-056-Q1-K1-E1

<400> 50186

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 tgcaccaccg accgtcgaac tcccgaaggt aactctatctt cttgatcaac atcaacatgt 120
 cgcggggagga taatgtttac atggccaagc tggctgagca agcagaacgg tacgaggaaa 180
 tggttgagta catggag 197

<210> 50187
 <211> 461
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-056-Q1-K1-G9

<400> 50187

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 gggaaggagc gtgagctgtc caagaaatct tggagcacca aggacctgg gcagcagcca 120
 ttcagtttca gcattgggtc gggttcagtg atcaaaggat gggacgaggg agttatgacc 180
 atgcaagtgg gtgaagttgc tcgtatccag tgcacgcctg attatgctta tggagccggc 240
 gggttcccag cctggggaat tcaaccaaac tcagtgtctg tgttcgagat tgaagtctc 300
 agtgcccagt aattcgcatc tgtcagctat ggaaacgttg gccatgcttc tcaagtaatg 360
 aaataattcc gttgtcacct catgctacat acagcagatt ggtgttacga gttaaatect 420
 gtgaaacttt agcattctgt aaccgtggat gtcgagttta t 461

<210> 50188
 <211> 230

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-057-Q1-K1-A10

<400> 50188

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 cagggaggag agcatgaacg ctctgcactg ggcgctcgac aacctccgcc tgcaccccaa 120
 ctgctagctc gtctgtctgc acgtccagcc gctgtccaac atcgacatgg gactcaaccc 180
 ggcgcccata cccttacgca gcttcattca gttggagggt cctgcattca 230

<210> 50189
 <211> 334
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-057-Q1-K1-A11

<400> 50189

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 cagctggacg tgaaccagac ctactacggg aagctgggag agctccgctg cctgttcgcc 120
 tacgacgtcg ccactctggag tcccgtcacc aggtcttttg caaaggtagc gctgccacag 180
 catcagcttg tcgaggacta ctacctcggg aagcacaggc tgagccacgc gcagagcatg 240
 atcgggatct cagggctgcc acatggcgct catgggagcc ctcgacggat accggattgt 300
 cgacggggcg gttgattagg ctattgagcc ggtg 334

<210> 50190
 <211> 299
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-057-Q1-K1-A2

<400> 50190

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 gcatgcaaga cacacatcag agctcccagt catgtaccaa gaaaactaaa tcccaccgga 120
 taatgggtca cttgagagaa gcagtatgaa gctagtaata atgtgtgagt ccacccactg 180
 tccgcacaat taaatagtcc attcccacct gggacacatg gtttcatcat caaaaccgta 240

tactgtgtgc attgtgctgc gcagaaaact atttcgacgg cctgtctgct ggattgact 299

<210> 50191
<211> 371
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-057-Q1-K1-B10

<400> 50191

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gggttctgtc aagaggcttg tccagtcgat gctattgttg aggggcctaa ctttgagttt 120
gccactgaga cacacgagga actactgtac gacaaggaga aattgcttga gaatggtgat 180
cgctgggaga ctgagattgc tgagaacttg agatctgaga gcctctatcg ctgaatctgt 240
cttcattat gggtgataaa ctgggttctt ccattttcca tattttgctc aactagctga 300
tgaataagca aacgatgtat cataacttag gtacgatgtt tttgtacctt ggcaccatct 360
gtgtgttttg t 371

<210> 50192
<211> 359
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-057-Q1-K1-B2

<400> 50192

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gggttctgtc aagaggcttg tccagtcgat gctattgttg aggggcctaa ctttgagttt 120
gccactgaga cacacgagga actactgtac gacaaggaga aattgcttga gaatggtgat 180
cgctgggaga ctgagattgc tgataacttg agatctgaga gcctctatcg ctgaatctgt 240
cttcattat gggtgataaa ctgggttctt gcattttcca tattgtgctc aactagctga 300
tgaataagca aacgatgtat cataacttac gtacgatgtt tttgtacctt ggcaccatc 359

<210> 50193
<211> 354
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-057-Q1-K1-B9

<400> 50193

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catggcatgt ccctacaggt tttgagttat ggggtgtgtc tctatggatg ccaaaaagct 120
cctgcagctg gtcgaagaga agaaaaggag gatcctcgag aagaaagaag cccactaaa 180
gtggcagcag aagcttgaag caccagttaa cgtcaaagct gatgcagaag cgaaggcgaa 240
aaaactaaca tcaagatagc ataggaggag aggagattct tctcggact ctgacagtga 300
ctatgacagc gaatgtgatc ggaaacaccg gaggaagaag gatcgtagaa ggaa 354

<210> 50194

<211> 278

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-057-Q1-K1-C1

<400> 50194

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cacctggtgc agcagcta at cgtgtggctt tagaagcctg tgtacaagct cgtaacgaag 120
ggcgcgatct tgctcgtgaa ggtaatgaaa ttatcaaagc agcttgcaaa tggagtgtctg 180
aactagccgc agcttgtgaa atatggaagg agatcaaatt tgatggtttc aaagcgatgg 240
ataccatata aattaaaaaa aaaaaaggac ataaaaac 278

<210> 50195

<211> 226

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-057-Q1-K1-E2

<400> 50195

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tacattacta catttcaaac ttcatgtcaa agtagaatat atatggacat aagatcacat 120
ggatgttgct ccacactttt tagcacacac agatatacaa cgcanatata cattgattgc 180

cttttctgga ggcaattcac cacacgtgcg ttccttttagt tacccc

226

<210> 50196
<211> 320
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-057-Q1-K1-E5

<400> 50196

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cgggtctcacc tgggccacgg acgaccactc tctgcacaac gccttttagta cctacggcga 120
ggatctcgag tacaagatca tgctcgatcg ggagactcag aggtcccgag ggttacgcta 180
tgtcccttc tccacggagg aggcgatgcg gaacgccatt aagggcatga acggttaagga 240
gctgtacggc tcgaacatga ccgtgaacga tgcccagtc tgaggcggac gtggatgcgg 300
aagcggcggg tacggtggtg 320

<210> 50197
<211> 86
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-057-Q1-K1-F1

<400> 50197

caatctaaaa cctggttccc cggaagaacc cttcggccgt ggttcgacgg aagccttccc 60
ggcaacttcg gtttggatcc ttgggg 86

<210> 50198
<211> 391
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-G10

<400> 50198

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gcgtccatcc actcctcccc tgctccggct ccggctccgg ctccgccatg ggcctttcaa 120
cagtttactc cccggccgga ccgcgcctcg tgccggcccc tctcggccgc tgccgctctg 180

cccagccccg ccgcccgcgc cgagccccgc tgcgccacgt ccggtgctcc gtcgacgcca 240
ccaagcaggc gcaggatggc gtggcgacgg cggtcgcgac ggatgcgccg gcgtcgcgga 300
aagagtgttt cgggggtctt tgcaccacct acgacctcaa ggcggaggac aagaccaagt 360
cgtggaagaa gctagtgaat tgtgctgtgt c 391

<210> 50199

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-B3

<400> 50199

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gccgcccga cgcacaaga agctagctcc tgcctgtacc gcccggtcat ggcgatgcta 120
tcccgcgcag cctcctccgc ggcccggcgc ccgctgctgc cgcgcctag gcttctggcg 180
gtgagggcga tggcgctgct gctcttcggc cacgtcgagc cggcgcccaa ggaccccatc 240
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ggcgccctacc gggacgacaa cggccagccc gtcgtgctca gctgctgctg cgaggccgag 360
cgccggatcg cgggcaacct caacatggag taccttccga tgggaggcag cgtcaagatg 420
attgaagagt cac 433

<210> 50200

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-H3

<400> 50200

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tccttgggtg tggatgatc tacacatttt acaaggcaca gggatattct gatggaaaat 180
ctctcgtgga agaggataaa ctcgagctcg caacttctct tattgagaag gcgaaagcaa 240
aggggggttt tcttttgctt cccactgata ttgtagtagc ggacaagttt gcagccgatg 300



ctgagagcaa gattgtccct gccactgcta tccctgatga ctggatgggt cttgatgttg 360
 gccctgatgc caccaaaaca ttcgacgaag cattggacac caccaagact gttatttggga 420
 acggcccat gggagtgttt gagttccaga agtttgcac 459

<210> 50201
 <211> 408
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-004-Q1-K1-D5
 <400> 50201

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 ttgaggctgg agtttcagag catgccagga cccttggccc aaaaggttct gaccctcaca 120
 aggcggctgt cattggtgac accattggag atcctctcaa ggacacgtct ggcccttccc 180
 tcaacatcct catcaagctt atggcggttg aatcccttgt cttegcctcc ttcttcgccc 240
 cccatgggtg cattctcttc aaatggctct aagccagcga gagacgcagg ataaaggccg 300
 tagttttgca aggcgagtag agcagtatgt cagtaataca gcatttatgg catgtgcttt 360
 tgctcgtcca gttcatgagc cccgttgtgt atttggtttc ccgtttct 408

<210> 50202
 <211> 427
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-006-Q1-K1-D10
 <400> 50202

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 ggagctcgcc ttcattcattg cagagaggct caggaagagg acgatgccgt cggggctcaa 120
 caacagcctg cctctgccac cactggcttt ctaagtagcc gaagctgaac agagaaggta 180
 gagggatagt tgccggcact cgaaagatta cgctgttta tttgctgatg cttggtgtgg 240
 aggcctggcg ggcgtcttg gcacaagta catgctgggg agctatagga gggtaacctg 300
 tgcgttgtgg aagacagtag ctagtattat gtgttgtaat tgtatgcctt cgattcatgt 360
 tctgagtgcg tgacttgtcg actttgctgc ttctgggggt ctgaccttg taaggagaga 420

atataga

427

<210> 50203
<211> 376
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-H12

<400> 50203

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aggcaaatat gtggtggata tagataagag cattgatatc actaagatca caccttcaac 120
aagagttgct cttcggaatg acagctatat gctccatctg atcctaccaa gcaaagttga 180
tccattggtc aatctcatga aagttgagaa ggttcgggat tctacctatg atatgattgg 240
aggccttgac cagcaaatta aagagatcaa agaggtcatt gagcttccaa tcaaacatcc 300
ggaactgttt gagagccttg gaattgcgca accaaagggt gtccttcttt atggaccttc 360
gggcacaaga aagaca 376

<210> 50204
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-D7

<400> 50204

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gaaattcttt cactgaatcc actcctcctg ttagtgctgc gtcacctgat atcttccagc 120
tctccaagat ttctcctgca caaagccctt caatgggctc tggcgagcag gcgttagagc 180
ctaaacatga gtcggcagct tcacctcgtc ctgaaaactt gaggcctgat gcattattct 240
ctgggaacac agccgatcca tccattttca ataatgccat agccatgctc ctgggcaatg 300
gcattgatgc cgagtacaaa cctgttcttg gtgatggaat tgtgctcgat tcttcgtcat 360
ggaacaacat gcaacatgct tticagatgg cgggattcaa atgagttcca tgcaccttgt 420
t 421

<210> 50205
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-B7

<400> 50205

cggacgcgtg ggcgaccgcc accaagatga acaaggagag gctcatgaag atggccgggg 60
ccgtccgcac cggcggcaag ggcaccatgc gcaggaagaa gaaggctgta cacaagacgg 120
tcaccacgga cgacaagagg ctgcagggca ctctcaagag agtaggggtc aacaccatcc 180
ctgcaatcga ggaggtgaac atattcaagg acgatctcgt catccagttc ttgaacccca 240
aagtgcgaagc ttccatcgca gcaaacacat ggggtggtcag tggatctcca cagacgaaaa 300
agctacagga tggttctcct gggatcatta accagcttgg ccttgacaac atggagcacc 360
tgaagaggat tgccgaggag atgcagaagc aggtggctgc tgccggtgcg gcagcacagg 420
tcaaggaaga caacg 435

<210> 50206
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-E9

<400> 50206

ggccaaatca ggaagatgga ggcgatcttc cccaagaaac acacgagatt gtcaagcctg 60
ttgcagttca ttcccagaat ccaattaatg ttgatgaact cgtgggcatg tcaaagctaa 120
gcatatggga gcatggtcag gagacagtgt ctacttctct gtcgctaaat ctgctagggg 180
gtcaaaatag gcagtcggct ttccatgcaa accctcaaac aagagctcaa gcctgatcat 240
cccctaccag cacagaaact gcattttaga tgggaatcctg ggcaaaataa gctttgctct 300
ttttttcttc ttctaaattt aagatcactg agtcataagg tctactggttc gaagtagctt 360
ctccgtatctt gcggggaaag cctgccctgg gttctctcct tcatcagacc ccaactcatat 420
g 421

<210> 50207
<211> 420

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-A1

<400> 50207

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 gaggtacggc ggccgatctg gcggcgcagg cggagggctc ggccggggcc ggcaagtcgg 120
 cgccgaacat ggggaggggc cgggtcgagc tcaagcggat cgagaacaag atcaaccgcc 180
 aggtcacctt cgccaagcgc cgcaacggcc tgctcaagaa ggcgtagcag ctctcgggtgc 240
 tctgcgacgc cgaggtcgcg ctcacatctt tctccaaccg cggcaagctc tacgagttct 300
 ccagcacgca gagcatgcc aaaaacttg aaaagtacca aaaatgcagt tttgcagggc 360
 ctgaaacagc actccagaat agagagaatg agcaactgaa aagtagccgc aatgagtacc 420

<210> 50208
 <211> 278
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-B12

<400> 50208

gcgcaggaag aagaaggcag tccacaagac tacgaccaca gatgataaaa ggcttcggag 60
 caccctgaaa agaataggag tgaacaccat tcctggtatt gaagagggtca acatctttaa 120
 ggatgatgtt gttattcagt ttgtgaatcc taaagtgcaa gcttcaattg gtgctaatac 180
 atgggtggtc agtggaactc cacagacaaa gaagctgcaa gatctgcttc cgtccattat 240
 caaccagctc ggacctgaca acctagacaa cctgcgga 278

<210> 50209
 <211> 465
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-E12

<400> 50209

gccgccgccg cttcccttgc gcccgcagcc aagatgaatg ttgaaaagct cgagaagatg 60
 gcaggtgctg tgcgcactgg ggggaagggt agcatgcgca ggaagaagaa ggagtcacac 120

aagactacga ccacagatga taaaaggctt cagagcaccc tgaaaagaat aggagtgaac 180
accattcctg gtattgaaga ggtcaacatc ttttaaggatg atgttggttat tcagtttgtg 240
aatcctaaag tgcaagcttc aattgggtgct aatacatggg tggtcagtgg aactccacag 300
acaaagaagc tgcaagatct gcttccgtcc attatcaacc agctcggccc tgacaaccta 360
gacaacctgc ggaggcttgc ggagcaattc cagaagcagg cccctggtgc ttcagggtgca 420
gaggetggcg ccagcgctgg tgctgctcag gacgatgacg atgac 465

<210> 50210

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-D12

<400> 50210

cccactcgtc cgcccacgcg tccggggagg cggatcagat cgagtggagc aggatccaga 60
cccctactga tgagggtggtg gtgccctact ataccgtcgc gtcgcctccc gaagatctcg 120
aggagactaa gaagctgctg gataagctcg ttgtgctcaa gcttaactga gggctcggga 180
cgaccatggg ctgcactggg cccaagtctg tcattgaagt ccgcaatggg ttcacattcc 240
ttgaccttat tgtgattcaa attgagtccc tgaacaagaa gtatggatgc aatgtccctt 300
tactttctgat gaactctttc aacacccatg atgacacaca gaagattgtt gagaagtatt 360
ccaactccaa catcgaaatt catactttca atcatagcca gtatcctctc attgttaccg 420
aggacttttt gccact 436

<210> 50211

<211> 302

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-A10

<400> 50211

gaggatgtat ctggagcagt acggtgggtgc cgatgacgtg tggattggga aggtcgggta 60
caggatgtct ctcgtaaca acgagctcct cctccggaca gctcaagccg acttcagaag 120
tttccagaga caatgcaagc tcgagtggca tggcctcaga aaatgggcca gcaggagaaa 180

cctccaagca tacggcgtga cgtctaacag cacgctgcga tcctacttct tagccgcagc 240
cagcatcttt gagccagaca gagcgacaga gcgtctgcga tgggctcgca cggcggtgct 300
cg 302

<210> 50212
<211> 444
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-013-Q1-K1-G8
<400> 50212

cgaacgacct cacgcagatg acctttggct acagcagggg tgatgtgggg aagttgagcc 60
ccatttatct ggctcagggc atcctccagc atgacctt cgaggttctc gaccagagag 120
gagtgggcca gctgggtaag cttgctacag agagggggccg caaagctagg cctaacttga 180
aggtgggcat ttgtggagaa catgggtggag agccttcac gggtgctttc ttcgccaaga 240
ctgggctgga ttacgtttct tgctccctt tcagggctcc gatcgctagg ctagctgcag 300
ctcaggtgct tgtctgaggg gctgcctcct cggtggcagc ctgctgttgg tgcactctgt 360
gattaataat actactatga cagagccata tgctctgtga agagtattaa tagcagcgct 420
cataaaaagct acagttccat ctat 444

<210> 50213
<211> 353
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-001-Q1-K1-H3
<400> 50213

gactagttct aggtacgatg ctgttcagtc catcaaact acagttctga ttgggacgct 60
tggagttgga agaacattca caaaagaagt tggtgaggcc atggcttcct tcaatgagag 120
gcctatcacc ttttactgt caaatccaac ctctcattct gaatgtactg ctgaagaagc 180
atataactgg actcagggtc gtgtaatat tgccagtggc agtccatttg accctgtgga 240
gtacgatggg aaggtttttg tacctggaca gtcgaacaac gcctacattt tccctggatt 300
tggcctcggt cttgttatct ctggagccat ccgtgtccac gaggacatgc ttc 353

<210> 50214
 <211> 430
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-004-Q1-K1-A10

 <400> 50214

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 gacggcgaga aagtcctcat tcagtttgag gacttcgcga atcataatgc ttttaatttg 120
 cttgcaaaat atagcaagag ccatcttggt ttcaatgatg acatccaggg cacagcatca 180
 gtggtccttg caggtttgtt agcagcactc aagggtgggtg gtgggacctt ggcagagcac 240
 acttatttat tccttggtgc tggggagggt ggaactggta ttgcagaact cattgctctt 300
 gagatttcaa aacagacgtc ggctccaatt gaagagtgcc gcaagaagat ttggttggtg 360
 gactcaaagg gtttgattgt tgactctcgt aaaaactccn gtcagtcatt caaaaaacct 420
 tgggcacatg 430

<210> 50215
 <211> 415
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-035-Q1-K1-D1

 <400> 50215

cgcgcatcga atcgccacca gtgcgcatte tgctgacccc tcgcatcgc cggcggggcga 60
 atcgacacca tggccgccgc acgcgggggc cgcgccgacg gtgccaacgg cgtcgtccgt 120
 cccgcgcgcc gcgaccgtgt cgtcggcgtc agcgggaagca tggcggggcg cgtggccgtc 180
 ctgccttct gtgtcgccgg gatctgggtc gctacatct accagggcgt cctccaggag 240
 actctatcca cgaagcggtt cgggccggag gcgcggcggt tcgagcacct tgcgttcctc 300
 aacttcgcgc agaatgtcgt atgcttcgtc tggctccttc taatgactaa gttgtggtcg 360
 ggccgggagcg ggagcagctc cgacggccgt gcgccgctat cgaagtactg gggcg 415

<210> 50216

<211> 448
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-035-Q1-K1-D10
 <400> 50216

ctccactaca aggggtccac cttccaccgc gtcacccccg agttcatgtg ccagggcgagg 60
 gacttcaccc gcggcaacgg caccggcgggc gagtccatct acggcgagaa gttccccgac 120
 gagaagtctg tgcgcaagca caccgtcccc ggtgtgctct ccatggccaa cgccggggccc 180
 aacaccaacg gctcccagtt cttcatctgc accgtcgcg ccccttggtt cgacggcaag 240
 cactgtctct tcggccaggt cgtcgagggc atggacgtcg tcaaggccat cgagaagggtg 300
 ggcaaccgca acgggtccac cttcaagggtg gtcaagggtg ctgactgcgg acagctctcc 360
 tagatctctc tgatctggtc tgttcggccg acctaccttc gtcacgtcgc actccccctg 420
 cgtccgttcc tttggatctg aataagat 448

<210> 50217
 <211> 380
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-035-Q1-K1-D11
 <400> 50217

ggtctccaag gacgcgtccg atgatgacct gaagaaagcc taccgcaagg ccgtcatcaa 60
 gaaccacccc gacaagggcg gggatcccgga gaagttcaag gagctagctc aggcttatga 120
 ggtcctcagt gatcctgaaa agcgggagat ttatgatcaa tatggtgagg atgccctcaa 180
 ggaggggaatg ggaggtggtg gagggatgca cgatccctac gacatattgc agacattcta 240
 tgggtggcgga agcccttttg gaggcggtgg catcagtatg tgcacaaggc agcgaatggg 300
 ataagatgtg gttcatctc taaaggctac tctggaggat ttgtacaatg gcacatcaaa 360
 gaagctctct atgtcccgca 380

<210> 50218
 <211> 434
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-035-Q1-K1-D2

<400> 50218

ccccagcgctc cgccacgcgc tccgcttggtg ttgttcggag cgggcagcag cacacagccg 60
catcccaatc ctagtcgac ttttccccct cctcaagccg gttccttcgt ccacacgacc 120
gcgcgctcgg aaaactccgc ggagggcgaa ggagggcgaac caagggcgac gtatccgccc 180
ccggagaagg tagccctcga tccgccgtct cccgcgattc gtttgtcttg cgacagctgg 240
gcgaccgctg tcgcgcgcgc ctttctccag gtgcccaggt cttegcgggt ccctttgccg 300
cctgcttgcc gacgacgagc accagccaga aaagaagctg aaccatgggg aagagaaagt 360
cagctgctaa gccacctnct aagaagcgga tggacaagct tgacactgtc ttttcctgcc 420
cattctgcaa ccac 434

<210> 50219
<211> 455
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-035-Q1-K1-D3

<400> 50219

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gagtatggga tcttggtggt caaacaagca tcaggccata ctggcggtgc tactttccaa 120
acaccaggc tatcatatat gttgttgatt caagcgatac agataggctt gtaacagcaa 180
aagaagaatt ccatgccatc cttgaggagg atgaacttaa aggtgcagtt gtccttgtgt 240
atgcaaataa gcaggatctt ccagggtgcac tcgatgatgc tgccattaca gagtcattag 300
aactacacaa aattaagagc cgccaatggg cgattttcaa aacatctgca ataaaaggag 360
aggggctctt cgaaggtttg gactggctca gtaacacgct caaatctgga agcagctaag 420
gagcctncgt ctcgatcatga atcatttgct ggatg 455

<210> 50220
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-D4

<400> 50220

caggatgata tgaacatgga catggaccca tatgttagcc tgcctcaact gaaacaacat 60
ggacccagac attagccgct cttgtgctat cacaatggct gtgactctgt gagtatcttt 120
acagttatgc tcgttatacc cctgtgggtg acctgtttcg atcgtcttcg accaaatgtc 180
acgtcgactg cagtctccag ttgttaatac agtctgttca gcacgctgat ttaagtattt 240
gggtcaagat gttcatataa tcctgtggta tccagagata ttatagtttg ttttcgtaac 300
tgtttgcgca gagaccatgc tatgttgctt gcaggctatc agtgtatttg ttctaacaga 360
tcgcaacgct tgtacaacgc attgacctgc cagactgggc cacta 405

<210> 50221

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-D5

<400> 50221

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agaggggatca tacgaagcat agcgccaaca agaccaccgg aagctaggcc gcacgcaagc 120
acctgggcac gaaggtggcc aggaagtcgg cgccgacgac cgcacgcacg aacaagcccg 180
acaagtacag gcacaggacc atggccctga ccgagatcct gaagtacaac aagagctccc 240
agctgatcat ccagctgttg atcttgacgc gctgtttcca tgagatcgtt cagcacatca 300
atacggattt gcagatgcag atgcacgccc agatggacgt ccaagaagcc gtcgaggaat 360
acctcga 367

<210> 50222

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-D7

<400> 50222

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gagtatggta tcttgggtgt caaacaagca tcaggccata ctggcgggtgc tactttccaa 120
acacccaggc tatcatatat gttgttgatt caagcgatac agataggctt gtaacagcaa 180
atgaagaatt ccatgcgac cttgaggagg atgaacttaa aggtgcagtt ggccttgtgt 240
atgcaaataa gcagtatctt tcatgcgcac tctatgatgc tgccattaca gagtcattat 300
aactacacac aatcaagagc cgacaatggg cgattttcaa aacatctgca ataaatggag 360
aggggctctt cgaagggttg gactgggtca gttacacgct caaatctgta tcagcttatg 420
agccttcacc tcgtcatgaa tcatttgctg gat 453

<210> 50223
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-D8

<400> 50223

ggtggatcca cacacttctt gaccagcaga gaaggtggag ggtggattaa tgctgcaaaa 60
ttctggactg gtgcatcggc catgggaagc cttgctattc cagcaattct gaggcattgt 120
ggcttaatcg agaccggggc catgttcacg gagttcacgt ctttcttcat cttgtatgc 180
acagtgtgt gttccatag ggcgactctg gatgaagact ggtaaatgcg catttcaccg 240
acacctgaa ccctagcggg tcttggctgc ttctgtccat gctaagaaat attcctgttg 300
gaagctaaca tggatctgta caaagaagcg tatttcgagc gtagccgtag ctgatgtctt 360
atgtagacac ttgtgaagat tatgtgggtca tgtggcaatg cagatgttat taccttcact 420
ttgactttgt cgtcacatgt tctatg 446

<210> 50224
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-D9

<400> 50224

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gatattctatg gttacttatt attgggcatg gagcacgtca tctcaatgga ggagatcctc 120

gggcccttct gggagctgct accaccgtca ggcgcagagc cagagccaga gcgagagcag 180
 cctccggtaa ccggcatcgt cgtcggcagt gtcatagacg ttgctgctgc tggtcacggc 240
 catggtggcg gcgacatgat ggatcagcag caccgccacat agtggacctt tgagaggtta 300
 ctggaagagg aggctctgac gacaagcaca ccgtcgacgg tgggtggtggt gccgaactct 360
 tgttgctcag gcgctctaaa tgttgaccgg ccgtcgggtga tggaagaggc ggtaaatgat 419

<210> 50225
 <211> 459
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-E10

<400> 50225

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 gggccccggc tcgaattcct cgtcaaaagc gtgccgggag ctaccgcggg gcggctctgc 120
 gccctccgag acgggggatgt tgtggagctc ggcgcgctca cggggaaggg gttccccctc 180
 gacaggataa atccgcccga cgtcgcgcag accgtgctca tcttcgcggc ggggacgggg 240
 atcagtgcga ttcgatcact tatcgagttc ggtttcgctg ccaaagaaag agctgatgtg 300
 aggctttatt atggtgatac aagtctgaaa tctatgtcat accaggaaag gcttagtaac 360
 tgggagtcaa ctggaattaa aataatacca gtcttatcac aaccagatga cagctggaaa 420
 ggtgaacgag gatatgttca ggatgctttc ttcagaaac 459

<210> 50226
 <211> 448
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-035-Q1-K1-B2

<400> 50226

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 gggccagcgc caccgtccgt gagtacgtga agaagaacta tggtgacatc aaggctcgca 120
 acccctccct ccccttactt gtccgcgagt gctccggtga ccagaccag ctctgggcgc 180
 gctacgatat gggtgaggag agatgcgtgt acttgatgg cctgacggaa gcacagattg 240

atcaaaagct ggaggagctt gccaaaggccg gcgagtatct taaaaccaa taggactgag 300
aactctatgc tgccatgtnt aacgtgtgcc aatcaatgat gccatatggg tgagcaattg 360
ctactctatc gttatctgta tttgtgcctg gaattaagtc gttaattggc ttaactgtgt 420
gaaaatgtca ctaatgtctt acttaaaa 448

<210> 50227
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-B3

<400> 50227

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gggggttcag aatgggactg acatcagagt aatatgtggc ataccttctg atcctctgta 120
ctcgagagga ttttgttgtg gataagccac ttgctgcctt tgtttggtgg gtaattgctt 180
cgagcataag aaacagcgta tgctgctata aacgtctttt tgcaacgcga aaaaaaaat 240
accatagaaa aaagaaaaac aaaaaagtga aggcacagaa gagagaatca aaggttgcaa 300
gattttatca ctaaggctat gaagaacat tgcttaagct gatgagaatg aaaactgac 360
atgctggact agttattaat gctgaagaaa gaacgctttc cttgac 406

<210> 50228
<211> 379
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-B5

<400> 50228

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ggaataacag aaggacaaat gcttaaattc atgggogcaa acatacactt atctccaaca 120
caagccaaga tactgttgga ggatgagact gctggttttg catatttgaa tcttcaggaa 180
gcatgtccac cattatattc aattattggg ctgagggagc atattaagaa acggccacca 240
ttggctacct ctgagaaagt tcaacaattt gtgagggcac gggggagaga atcaatgggt 300
gcaggatttt atcacgaatg ctatgaagat ccattgctta tgctgatgag aaggagaact 360

gttcatgctg gactagttg

379

<210> 50229

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-B6

<400> 50229

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tcagcgacaa ggatagatgc ccacagtgc aggggtgataa agttgtgcag gagaagaagg 120
ttcttgaagt gtttgtggag aaaggcatgc agaatgggca gaagatcaca ttccctggtg 180
aagctgatga agcgctgac actgtcactg gagatatcat ttttgttctc cagcagaagg 240
agcatcccaa gttcaagaga aaggcgatg acctcttcta cgagcacacc ctgaccttga 300
ctgaatctct gtgtggcttc cagtttgttg tgactcactt ggataacagg cagctgctga 360
tcaaatcaaa tccggggcga gttgtgaagc ctgattcttt caaggcgatc aacgacgaat 420
gcatgcccac g 431

<210> 50230

<211> 346

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-B8

<400> 50230

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gatcgaggcg tccttggact cgaggtttct gagcgggctg aaggacgagc ggggtggaggc 120
ctccaagatc ttccagggtg actactactc caccggctcg ccggtggaca aggctcatct 180
gggtggaggac gtgaggcatg cctgtacgc gtccaagatc tgcagctacg cgcagggcac 240
gaacatcatc aaggccaaga gcgcgagaa aggctgttgg ctcaacctcg gcgagctggc 300
catgatctgg aaggcggggt gcattatacg ggccatttta ctggac 346

<210> 50231

<211> 447

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-035-Q1-K1-C11
 <400> 50231

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 gcgggcccaac gcacacataa cacaagctcg tcgtcgatgg cgcggtgggc tgcggtgctg 120
 gcgctggccg cggccacggc catcgccgtg gcgtccgtgg cgggcggcga catgagcgcg 180
 gacaagacgg agtgcgcgga ccagctggtg ggccctggcg cgtgcctgca gtacgtgcag 240
 gggcaggccc gcgcgcgcgc gtccgactgc tgcggcgggc tgcgccaggt gctggggaag 300
 agccccaagt gcctgtgcgt gctcgtcaag gacaaggacg accccaacct gtgcatcaag 360
 atcaacgcca cctcgcgcgt cgcgtcccc aacgcctgcg gcgccaccg cgccaacgctc 420
 tnccactgcg ctcagctcct gcatatt 447

<210> 50232
 <211> 217
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-035-Q1-K1-C12
 <400> 50232

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 attctatata tacttcagca ccatactcca attaactctc acattataca taccataact 120
 caaaaactca catatactaa tctattatit attaacaata tataatatcc atcatcaaaa 180
 accataacta atctataaac aaattctaaa cctatca 217

<210> 50233
 <211> 402
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-035-Q1-K1-C2
 <400> 50233

agaaagtact aaccacaatg aagatgacca ttccgatagc cctatcttct ctgctctgag 60

cacactcttc tctgatccgt tctcatccga cgatgatgaa agtggtccac actcttacga 120
 gaactgaaga tagcgtcgga cgcaggcttg caatatgggtg aagacgttct gcttctgagg 180
 ctggcatctt tatattgtag cttctgtaca tatctctctg aacggtcgcc ccccataaga 240
 caaactatta cctctccggt ttactgaaaa ctatgtggct tgtaatctgc tagtgcttgc 300
 tatgttcact tgccctgaat aaatgttatc ctttagcgtg cttaaaaaaa cactcatgga 360
 gctgcccgga gcccaacagt cccttaacct gctgcaaggc tt 402

<210> 50234

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-C3

<400> 50234

cccacgcgtc cggttcactg ccaatggctg ggtgcagtct tatgggtcaa ggtgcgtcag 60
 gcctccgata atctacgggtg acgtgagccg ccccaacccc atgaccgttt tctggtcgaa 120
 gacggcacag agcatgacgt ctgcccgaat gaaggggatg ctgactggcc cagtcacaat 180
 cctcaactgg tccttcgtcc ggaatgacca gccgagggtt gagacttgct accagatcgc 240
 tcttgcgata aagaaggaag tcgaggatct tgaggctggt ggtattcagg ttatccaaat 300
 cgacgaggct gcactgagag aagggtgcc gtcgcgaag gctgagcatg cattctactt 360
 ggactgggct gtccactcct tcagaattac caactgcgag atccaggaca ccaccagat 420
 ccaccccac atgtgtact ccaacttcaa cga 453

<210> 50235

<211> 310

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-C5

<400> 50235

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 acgaaaggcc taaaataata atacaagaac aaaaagccaa aaaaaccaa taaaccgaaa 120
 tctgatcaaa gacagcacia aaacatgaaa tataggggga tgaactttat gctgacctgg 180

cctaatacaca attctcaact ggtcctttgt ccttaatgac cagccccga ttgaaacttg 240
 cttcccgatc gcttttgcaa tcaagactgg agaaaaccat cttgatgcct atgttattca 300
 cgttatccaa 310

<210> 50236
 <211> 425
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-C6

<400> 50236

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 gcaagagcta ccgcttcttc gacgagctgg aggccttgca cgcagccgcg ccgcagccac 180
 agccgcccgt acagaagcag cagcagcagt tgccgccagc gagcaccacc gctccaccgt 240
 tgcacgcctt cgccgcgcga gtatccgcgc cgccgcgat aagttcaatg ccaccgtcga 300
 cggggccgat gcaaccagcg cccatatcgt cgccggcacc ggccgtgcag gtccagacac 360
 tcgtggagct tgccggggcc caccagcccc tcaacctgct gcaaggcttc agcttctctt 420
 ccatg 425

<210> 50237
 <211> 448
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-C7

<400> 50237

taccatgtca ctaccaatgg ctctatgcat tcttatccgt caaggagcgt caagcctacc 60
 atcatctacg gggacatgag ccaggagaac ctcatgaccg ttttctggtc caagaccgca 120
 cacatcatca cgttttgccc aatgaacgag atgctgtctg gccattcac aatcctcaac 180
 tggtccttgg tgcggaatga ccagccgacg tttgagactt gctaccagat cactctttct 240
 atcaagaacg aagtctacga tctcgacgct ggtggattc aggttatcca aatcgacgag 300
 gctgcactga gagaagggct gccgatccgc aaggctgagc atgcattcta cttggactgg 360

gctgtccact ccttcagaat taccaactgc gagatccatg acaccacca cattcacacc 420
cacatgtgct actccaactt taacgaca 448

<210> 50238
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-A10

<400> 50238

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tgtgcccgcc aggccatgga gcgtgaggac gccgacggcg ctctcgattc gtggggtcaa 120
ttctgcactc tttccaacga gcttctcgcc ggagacgggtg atctcgccgt cggcccacgc 180
ctagctcccg tcgttggtga cctctgcaca cgcggcctcg ccacgctcgt ccgcgactac 240
tattacgcc tttgcttgca ttgcatcccg tgttagactt gtgctcatgc gcttcactgc 300
atcctgttgt atctggatgg atttgaccaa atgcaaattg ccaacatttt tattaattaa 360
aattgctact gcaatgtctc 380

<210> 50239
<211> 452
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-035-Q1-K1-A2

<400> 50239

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ggaagtacga ggatttcaag aacgcgatgg cggatgatcag gccaaagcttg cagaagagca 120
aatgggacga gcttgagaaa tggaacgagg aatttggttc gagctgacgg cggctcgcac 180
tgctgtgcc tgatgatgat caagcgggtc tatttccatc tgtatatatg atttatgtct 240
cccacgctgt ggctcacaac acaaggggtc acaccatgcg ccattgatg cgtcctcggt 300
gggctaggca gcacaacatc gacagaagca gaatgtaaag gtatacttct ggcaacggcc 360
tatacagcca ttgagggcta gtttgaaaca ccgttcaagg gattttcatt nttcaaaggg 420
aaattagctc attttcccg taaaaatgaa at 452

<210> 50240
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-A3

<400> 50240

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atgcattctt gcaagacaaa ctggttatga ccaaactggt acagcaacat cttttgcgcg 120
ccaagcaata gatgaagtct atggatgata agcacccgac tgagtgtgaa tttgctgttg 180
gagatctgaa ggccgtgggt gtgctaacgt cctggtatct ccgttgctgc ctgccactga 240
ctctgcttgg cacattcatg aacagatatt ggagcgacat ctggtcgtcc caaccttcct 300
cgttggcaac atgggaagac ttggaagcac tcaagcacac ctttctcag gctccagctt 360
gggggcaagc tggttctcat ggaagaggga atgtcagtat cccttcatca gtcactggag 420
gtcaggcaga gcatgttcga ggagatgcag ca 452

<210> 50241
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-A4

<400> 50241

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gggctacca ggccaccgc ccgccccc cggcgatctt gggcgcccca ggagggccgc 120
cgatcagctc acctagaatc cggctgaaag acggccggca ccttgccctac agggaggaag 180
gagtgcgcag ggagaacgcc aggttcagga tcgttttcat ccatggcttc tcctccacca 240
aggagagcgg gttccccgtg tcccaggagc ttgtggagca gctgggcata tacatgctct 300
tcttcgacag agccgggtat ggcgacagcg acgccaaccc gaagcgctgc ctcaagagcg 360
acgccacgga cgttcaagag ctctctgacg cgctgcagct cggggacagg ttctacgt 418

<210> 50242
<211> 422

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-035-Q1-K1-A5

 <400> 50242

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 gtgcattctt gcaagacaaa ctggttatga ccaaactggt acagcaacat cttttgcgcg 120
 ccaagcaata gatgaagtct atggatgata agcaccgcac tgagtgtgaa tttgctgttg 180
 gagatctgaa ggccgtgggt gtgctaacgt cctggatatct ccgttgctgc ctgccactga 240
 ctctgcttgg cacattcatg aacagatatt ggagcgacat ctggtcgtcc caaccttcct 300
 cgttggcaac atgggaagac ttggaagcac tcaagcacac ctttcctcag gctccagctt 360
 gngggcaagc tggttctcat ggaggaggga atgtcagtat cccttcacatca gtcactggag 420
 gt 422

<210> 50243
 <211> 398
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-035-Q1-K1-A6

 <400> 50243

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 gatgataagg cgactcgaga agcaacaacg ttcaaagtgt gacgggtgtca acaataatct 120
 gtcaaaattg cgagaagatc ttgaatatgt tagattcttc cctaagaatg agaaatatgt 180
 ctcgctgttc actggaggga acagtcaaga tattgttcaa gagaggaata aatggcgcaa 240
 acagatcaag gagaatctca tggctgctgc agcaaacgga aaagatttag aagagacagc 300
 aagcgacgac gataccttgg atgtgagtga tgatgacttc tttatgtctg gaagttcaag 360
 tgatgaatag gctgatgatg agtggactga caaaagtg 398

<210> 50244
 <211> 445
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-A8

<400> 50244

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gaggaacggc accgtgtgcc tggcgccaac caaccccagg gacgagttcc agcactgggt 120
gaaggacatg aggcacagca ctagcatcaa ggacgaggaa gggtagccag cgttcgcgct 180
ggtgaacaag gtcaccggcg aagccatcaa gcactcgctg ggacagagcc acccggtacg 240
ccttgtgccc tacaaccccg agtacgttga cgagtcggtg ctgtggacgg agagccgcga 300
cgtcgggcac ggcttccgct gcgtgcgcat ggtgaacaac atctacctca acatggacgc 360
cttccacggc gacaaggacc acggcggcgt ccacgacggc accaccgtcg tcctctggga 420
atgggccaag ggcgacaacc agcgc 445

<210> 50245

<211> 443

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-035-Q1-K1-A9

<400> 50245

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catgtggaag ttccggtccc ttccggcga aagaacgagc ttctgctgaa gctggaggca 120
gcaagcatca acccagtgga ctggaagggtg cagaaaggca tgctgaggcc tttcctgcct 180
cgtaaattac cttttatccc agtgactgat gtggcaggag tcgtggctga tgttggtcca 240
ggaatcaatg ggttccaagc cggagatcaa gttgttgcta tgctcaactc atttaacgga 300
ggtgggcttg cggagtatgc tgtggcatca gaaaatctga ccgtcaagag gcctcctgag 360
gtatctgctg ccgaaggcgc anggctgccc atcgccgncg gcactgccct ccaggcgctc 420
anngaccatc gcgccaagtt cga 443

<210> 50246

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-B1

<400> 50246

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tgggtgcaggc gggcatgggc cttacccggg tcgttatcct cgtcggcgcc ggcgttgccg 120
gctccgtcgt cctccgcaac ggccgectcg ccgagatcct cggcgagctc caggagatac 180
tcgacaaggg gaagaagggtg aaggatggag gagggggaga cggggaaacc gatctcaacg 240
aggctcttac ctgcaggtg cgtcgccttg ccatggaggt ccggcaactt ggtaattcac 300
gttcaataac tgttgtcaat ggaagttctg cacaatcagg agtatcaggc ctgatagtac 360
ctgcagcaac ttaggagca ctgagttacg gttatatgtg gtggaaggcg atctcgttct 420
cagatctaata gtatgtcacc aagcgcaaca t 451

<210> 50247

<211> 414

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-035-Q1-K1-B11

<400> 50247

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gcttgtactg cgaggacggt gaacgatgtg aacccccacg agtttgtcaa ggcctactcc 120
gcccattctca aacgctccgg caagatggag cttcctgagt gggttgacat tgtgaagact 180
gcgaggttca aggagctccc tccttatgac cctgactggt actacatcag ggctgcatct 240
gtagcaagga agatctactt gagacaaggc attgggtgtg gtggcttcca gaagatttat 300
ggtggccgcc agaggaatgg ctcacgccc cctcacttct gcaagagcag tggtgccatt 360
tcacgcaaca tcctncagca gctgcaggag atgggcatca ttgatgtcga tccc 414

<210> 50248

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-A1

<400> 50248

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 ggtttcagcc cctgggacac gccgccggtc gtggcacctc cgccaccgga tcccgggtacc 120
 cgagctacgc catcgccgcc ccgcccccg tcaccgccgg tgcgcttcgg ccgacaccag 180
 acgcagctcg tccgccccgt cacgtgcacc tctgcgtgag cactggattg gatagcgttt 240
 gcagtttcgg cggctgggcg caaatcctac cgctgctgct cgcgcacgat gtctcgagcc 300
 cttgggggttc ccctactacg ctccggctgg agttctctat gaaacttggt ctacagtgtc 360
 cttttggtgc atgac 375

<210> 50249

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-G11

<400> 50249

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 gatcgtcgcc ggcacgatgg ccagctcgtc gtcgtcgctc tcagctctgg tcgtcctcgt 120
 ggtggttcta gccgcggcgg tggcgtgctc cgcgacgcgc cccgtccccg cgcggcagcg 180
 ggcggcggcg gcggaggagg aggacgtgag gcggccggac acgctgcacg agggcacggt 240
 gctgatcccc gggatggggc gctacgagat cggcagccac tacattccgg acatcggcgg 300
 gctggaccac agcgttcccc gcgccacca cgggcagttc atccccggcg ccgacgacac 360
 ctgggtgccc aacctcggct tcgaggtccc caacccttc cgaccggcg cggccactcc 420
 atgaacact 429

<210> 50250

<211> 353

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-G12

<400> 50250

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 gaaaaataat aagaaaaaaaa tagcctaacc aaaaaaaaaa aaaaataaat aaaaaaaaaat 120

gagtaaatat atatagaaag gtcggctcct ttcattgggtc agacgtttat caacttcggt 180
tctgggggtct tcattcttat ttcgcgcacc ctaatttgag taagttgtcc ccttttaaaa 240
accttgcgta atgtaaaaaa tttgggtacc cctagttttt cccttttaggc acaaatccct 300
tttcttgaat tgcctaatac tttgcacggc ccataaatgt cggtttttta aaa 353

<210> 50251

<211> 218

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-G2

<400> 50251

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gtataatcaa ccacatacca actacaaaca tataactaaa aaaaaaaaaa atcttataaa 120
accctccatc cttcactaaa ccactataaa cacattataa actccaatac tcttcacccc 180
tctcatctca ttccccacat ttcccttcca acccttcc 218

<210> 50252

<211> 337

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-G3

<400> 50252

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cggcttggtc tccgtcttct acctggcagc aggtgtgctc gcagttctca agctgccaaa 120
gctgtccaac tcgtaccaat ctgccgggtt ccatggattt ggctgatgct catgccaaa 180
acacccccgt ctgccatgta aaacatcaca ccaacacttg gccccatttt gccattcgtt 240
tacagagaaa tgattctttt ttctctgtac aactacagaa taatgacagt gaaagtagga 300
gtttagggtga gagaaagaga gaggctaggt aggttga 337

<210> 50253

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-G5

<400> 50253

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acatggcttt catgtggttt atcagcacgt aaagcttctg acaggagccc aaattcacct 120
gcagatgctg aatgggcact gtctattcct atagaagatt tcatatatgt aagttacatc 180
tgcaataatg tctgaactcg tcatgtccca ataggatcta gcgtttttca ttctgtacta 240
tggaacctagc tgcttaggac tgaaattttg ggtgctattg tcctatttat taacattatt 300
ctatgtttct gtattaagtt tatgcttagc ttgaaatttc tggagtctcg aagtagttat 360
aagatgacta gttgcttcag aagtgtcag taagtctgca ggaagtcact 410

<210> 50254

<211> 301

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-034-Q1-K1-G6

<400> 50254

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tcgtacgacc acatggctcg ctggcgaacg tcttcactaa ggagagagaa gaatcttata 120
aagccctcac atcgttcact ggatggctat aagcacattg tgaatgtgga atactgttcg 180
cccgtgtcat cggagggccc acatttcctt tccaaggctg ccagagctaa agaagctgca 240
cagcgatcgc caaaccgaga aaataccgag gagtaccacc aaatgatgga ngaggagatg 300
c 301

<210> 50255

<211> 421

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-034-Q1-K1-G9

<400> 50255

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aggggtgctcg gcagcgtctg cctcgcccttc tccatggccg tcttcgtcgc ccccttgagc 120
 gtcattcttcg ttgtgatcag gacgaagagt gccgagttca tgcccttcac cctctccttc 180
 ttctcaccac tcagcgccgt cgcttggttc ttgtacggcc tcttcaccaa ggacccctac 240
 gtcacgctcc cgaacgtggg cggcttcttc ttcgggtgca tccagatggg gctctactgc 300
 tgctaccgga agcgcaagcc ggcgtccgtg gtcgtcctgc cgacgacgac ggccgncgca 360
 gccgtggcac agcagctgga ggcggagatg gagctgcccc tcgccgncca ccagcaccag 420
 c 421

<210> 50256
 <211> 388
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-034-Q1-K1-H1
 <400> 50256

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 tgattatgat actccacata ctgtctgcta tggcagtga cagcatccgg tttcaagtct 120
 tagtagcctc ttatatgctc agggaaaata cgtctatgtt gatggcgacg gatctgttcc 180
 cgcagaatca gcaaaggctg acggatttaa tgcagtggca aggggttggg tggtctgctga 240
 ccaccgggga atcgtgtgca gtcgccgctg gttccggatc gttcagcact ggctgcacgc 300
 tggagaacct gaccggttct acgaccgct gagcgactat gtcatactcc caacactcta 360
 cgaaatcgaa aagcatcgtg agaaacac 388

<210> 50257
 <211> 432
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-034-Q1-K1-H10
 <400> 50257

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 gacaggttcc cccttcagat gttgtggaag tcgttgtag cctccttat gtcttccttc 180

ctgtgggtcaa gagccagctg cgccaagagt tccatgttgc tgctcagaac tgctgggtga 240
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 cctgggtcat tcttggaacac tctgaaagga gagctctgct gggagaatca aatgaatttg 360
 ttggagacaa ggttgcgtat gccctgtctc atggactaaa ggtcattgca tgtgttggtg 420
 agacccttga gc 432

<210> 50258

<211> 412

<212> DNA

<213> Zea mays

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<400> 50258

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 ccaccagaag gtcttacaag atttggagat tactttgtga caaaatgtgg tgctccttcta 180
 atgtcactct ttgtcttttt cacaaccacc atgtctgttt catttactct gagagaaaca 240
 caatcccgca tgcttagatt cacagtgcag cttcaacacc atgcacgcca ccacctgcca 300
 acctttcagt tgatattcgt gcatgtcacc gaatcattgg attttgtgcc gattatgatt 360
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<210> 50259

<211> 437

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-034-Q1-K1-H6

<400> 50259

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 cgcaagatc gacgcggcga cgacgaaccg gggcgggcggc aaggtcgggc aggcggatcg 180
 gctagggcag gacaaggggc gggcacgcga agctggcgtg cccgctctgc cgcaccccg 240
 cgcccgacat caagtccatg cagatccacc acgaggcgcg ccatcccaag ctccctttcg 300

agccggagaa gctcgtcaac ctgcactcct ncacccccgc cgccgccgag gccaccacct 360
ccaagcccaa gcccgngtc cgcggcagcc tcaagaagta gctggctggc ttgcctgcct 420
gactgcctgg ggtaatt 437

<210> 50260
<211> 237
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-034-Q1-K1-H7
<400> 50260

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ggtacaaaca taaaaacatg ggcgattatt gcaaatcctc ccattctttc tggctactga 120
cttogactta atatgtcttt tcatacacca caatccattc aatttactcg ccttggtaca 180
ccaacctgtt tggtcagaac acggtgttgc tcaccaactt ggtctgcttg ctcttcc 237

<210> 50261
<211> 421
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-034-Q1-K1-G10
<400> 50261

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ccccggttac ctagcccggg ccctgctacg cccatggcct cccgccgccg cacgatgagc 120
acctctccgg ccgcgtccgc cgccgagtcg gctgcgccga ctattgcctc cgtcgtcgag 180
gccttgaggg cgacggacac gttggtggtc gacgagaggg tcgcctcaca cgaggacccg 240
gtcctagtag aggcgctcga caaccctcgc caccggctca tggctctacg ggtggaactg 300
gagataccaa actctatgca caaccctcag ctgcaggagt tcgaattcca gaactgtccg 360
acttgttacc tacgctgtgc tggtcacgtg gttgcacaac attatggctt agagactata 420
g 421

<210> 50262
<211> 365

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-034-Q1-K1-E4

 <400> 50262

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 ggccccctgat gatcttgaca cgagacttct cctgtcaatg atcaccaagg gattgattga 120
 accaatctcc agcgtttttg tcaatctggt aaatgccgac ttcaccgcaa agcagagggg 180
 agttcgcac acggaggata ggatcctgct gtacggctca cctgaaacac ctatcgacta 240
 cattcaagtt cagattgcca atgtcgagtc caaatttccc agtgcgatat ctgagactgt 300
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 cattc 365

<210> 50263
 <211> 440
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-034-Q1-K1-E5

 <400> 50263

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 gtctagcagc agccaccggc gcctcatcct cgcagccgcc gtctgtctct cctgtctcgc 120
 ggctgccagc gccagcgccg ggacctctg cgtgcccggg tgggccatcc cgcacaacct 180
 gctcccagc tgccgctggt acgtgaccag ccggacctgc ggcatcggc cgcgcctccc 240
 gtggccggag ctgaagagga gatgctgccg ggagctggcg gacatcccgg cgtactgccg 300
 gtgcacggcg ctgagcatcc tcatggacgg cgcgatcccg ccgggcccgg acgcgcagct 360
 ggagggccgc ctagaggacc tgccgggctg cccgcgggag gtgcagaggg gattcgccgn 420
 caccctcgtc acggaggccg 440

<210> 50264
 <211> 411
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-034-Q1-K1-E6

<400> 50264

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gtcccgcatc ctgggcggcg gcggcgcaag cgccgcggct tccgccctcc gacaccgcgc 180
cgccatgggc ctacccgtcg gccgtcacat cgtccccgac aagcccctcc ccgtgaacga 240
cgagttggta tgggataacg gcacgccctt cccggaaccc tgcacgcacc gccttgcccc 300
gcacatcggc aagtacgagg cgttggcggtg gctgtgcgga gggctagggt tcttcgctgc 360
cctcggtatg gctgctgttg tgaacgacaa ggctncaat ataccatata c 411

<210> 50265
<211> 274
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-E7

<400> 50265

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cgttcgaaga cgaccgcag gacacgttcg agcaagaggg tgatgaagaa gactttgcag 120
atgatgtcga tgagaactaa gtctaacgat gcaccagtca ctttcctatg gaagagtgtc 180
catgtttaat tctattgtac tttgatgatg atacttttta agacactatt gtctaaatga 240
tgtaataaag ttactctact ctctttacgc cttt 274

<210> 50266
<211> 436
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-034-Q1-K1-E8

<400> 50266

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gaaggctccg aacaggcatg aagagatgcg tgacctgttc caaaatgata tgagtgaatg 180
gaaacagggg cgctcctcaa agaaaaataa caaatgtgcy cccaaaaaat caaggaactc 240
ttttaagagc aaagcaaggt acaagcggaa gtagaagact cggccatctc cgggtttata 300
ttacattccc ttgtttcaat ttgactgac tgatcctgaa gaaatatctg ggatccagat 360
gtttgcagtt aattcaagtt tgcttttaac atattctcat atcatgtatt gaaactcacc 420
gttttcaaaa naaaaaa 436

<210> 50267
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-E9

<400> 50267
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tggatgctgt ggagtctgct aaagcttatg ggaatgacaa tttcaagaaa caggactaca 120
aggcagctct cagaaagtac aggaaagctc tgcgctactt ggatctttgc tgggagaaag 180
aagagataga tgaagataag agcacagcac tgcggaagac caagtcaata atactcacta 240
atagctccgc atgcaaatta aagttaggag attcaagtgg ggctttatta gacgcagatt 300
ttgcactgcy tgaaagggag ggaaatgcta aagctttttt ccgacaagga caggcacaca 360
ttgcacttaa tgacattgat gcagccgtgg agagctttaa acaggcattg gagtggagcc 420
aaatgatgct g 431

<210> 50268
<211> 229
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-F10

<400> 50268
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ttatgtactg agagagagag agaaagatgt cagttgtagc tcatcatcta cacaaccagt 120
ctggtattct ggcgtgggta ccgaacgatg tgttaaagat cttctgactg tctgacgaga 180

actactgcct gtgcgttcga gacagtgcct tagcgctgga cgcagtcaa 229

<210> 50269

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-F11

<400> 50269

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gactcagccg gccgccgtcg tcgctccccg ccgacggtgc agaccgcgtc cccgaggccc 180

ggtagcctca ggcgccagtc gtcgctgata cgcgaggaca tctggcacgc cgactgagag 240

acttaccttg tatcgcgctt caccttcacc ctactgcagt acctcggttt aggtcaccga 300

tggatgtcac aactgctttc actcacaatc tatgcaattg gacttatgcc aggatttata 360

caaattggat attactattg attttcgagc caagtgcgta gaagtgtagt ctatggagac 420

caac 424

<210> 50270

<211> 284

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-F12

<400> 50270

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actctttggg acatacatat acatatgtgc aaactataca taccgagaat cctactccca 180

gttcaatgac tcgccagtaa tttcagcatc gatatacatc tggtagcact cattctaaat 240

ttaactcgtc ttatgcgtca ccttaacttt actgctatag ctat 284

<210> 50271

<211> 116

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-F2

<400> 50271

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aatggaaaaa tataatatat tgtaaaataa aaaataataa aatataaaaa aaatta 116

<210> 50272

<211> 412

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-034-Q1-K1-F3

<400> 50272

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taccgtggga gaggggggtga taaggacggt ggggtttcta tgttgaagtc gtggatcatgg 180

acaatttgtg attttttctc ctttatgcca tgttttgga tttttgtagc tgcctaggcc 240

ttgtggtaat gtgctgctgt gggggttcat tagtatgaag aggaagacgc tgctggcgct 300

gagtctttct ctttattagt attttgttta aaactatgta tgaccgaatg gtggtattta 360

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<210> 50273

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-F4

<400> 50273

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cctcaatgct cacaagctcc tatagcttcc cttcttcccc cataccttcc atcaattata 180

gcttcaatat gtgaaaaccc agctcttcaa ccatataggc ttcaacaagc aatcgcagca 240

agcaacatac ctttatcgcc ctgtgtgttt caacaatcgc cagccctatc tttggtgcag 300

tcattggtac aaaccatcag ggcacaacag ctgcagcaac tcgtgctacc tctgatcaac 360

caagtagctc tggcaaacct ttcttctac tctcagcaac aacaatttct tccattcaac 420
caactgtcta cac 433

<210> 50274
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-F5

<400> 50274

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agccaagat tgttgcttca gttcagaact tcagtgttgt gtctgtggac gaggtcaaa 120
tttctgctaa cctcatcaaa catgggccat tggcaatcgg catcaatgct gcctacatgc 180
agacatacat cggaggcgtg tcatgcccac acatctgtgg caggcacctt gaccatgggtg 240
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actggatcat caagaactcg tggggcgaga actgggggga gaacggatac tacaagatat 360
gcaggggttc caacgttcgc aacaagtgcg gcgtcgattc catggtctct accgtgtccg 420
cagtccacgc c 431

<210> 50275
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-F6

<400> 50275

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ggtccccatc gacatccgcg atacgtgcta agatgctgta ctccacgtcg aaggaccgca 180
tcaagtacga gcttgacggg ttccactacg aaatccaggc gaccgaccca tcggaggtgg 240
acatcgaggt tctccgggag cgggctcact gaagctggtt ctctttttga agggacctgt 300
ggagggccgt gaaccttcag ccagatgcaa attcaattat caacgatgaa gctcccgccg 360
tgggtgttgt taataagttc ctgtaagcat atcatttagt cgctatgcat gacactagct 420

gaagcgctat ctaagct

437

<210> 50276

<211> 322

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-F7

<400> 50276

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ttcttgtaca catcaacgtc tagggtagat ccttatacta tgtacttcat ctcccatcac 180
catattagat ccaaccttta cgtctactac tgctataaaa actcgaccaa tttctatgtt 240
gctaatatct ctgatatcag gtcgcgctct gaatcaaact ccaattcctt atatttgcac 300
ttattgtggg tegtcaatct tc 322

<210> 50277

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-F8

<400> 50277

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ctcagctccg gggcgaagcc aggaattaca tgtagggagg ccggccgaaa gagccatctt 180
gtaaaaaaat gatcgcggtt caactggttt ggttactcgc acttagcgtc tgtctgagtt 240
aatacttgac aaaaaaaaaa aaaacaagca cagctcaact ggtagggtt ctcgtagtgg 300
tggtggtcgt ttgggttaat tcatcgactt gacacggttg ctctatctt attttctata 360
tgtattctag atagtgaggg tttattggat tttgatcgta gacgctaata agaacctcta 420
ctgaatggat gccttcg 437

<210> 50278

<211> 434

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-F9

<400> 50278

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ggcattctgt tgtgggttatt gtctgttatt tcagtcgcta gcgaagtgtc tgacggttct  180
gaaagctcct gttctagagt aactgagtta gcggtggagg tagtcaatgg ttcgatataca  240
tcaagattga tcacagattg gctccaagaa accgcccttg agcagctctc aacaatatca  300
tcataccttt ctgttctaata taacaatgcc aaattattga aaggaaatgt tcatttggtg  360
acttcagctc taagtgtgat tacatcaaca atgagggtgt ctatgacaag gaagatatac  420
caaccacatt ttac                                     434
  
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<210> 50279
 <211> 410
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-E3

<400> 50279

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agtgttcctg ctgctgtatc aagggtgccc tctccttcag ttcttgcaac aactgttcct  180
gcagtacagg tgaatggggg tcatgacagc actgttgaag atgtacctgc accaccaact  240
gctcatgccg agcctaattg atttgatgag ttgatccac gtggatctgt accagattct  300
tcccccttctg taaaccctgc atcagtagcg aatagcttgg agatggattt ggttgatca  360
gatcctaata gttcgttggc ttggtgtct gtgccttcac caacgactac               410
  
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<210> 50280
 <211> 426
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-C8

<400> 50280

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<210> 50281

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-C9

<400> 50281

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gccacacgac cattccagct cgtgactggg cgtgtctgga agggaaccgc tttcgggtggc 180
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aagcagtttt tgttttggaa ctagaactcc tttttgctc gttaggcctg gacccgctgt 420
ataatgctat g 431

<210> 50282

<211> 320

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-034-Q1-K1-D1

<400> 50282

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gatgaggagc gacggcgggt acgaggtgat caagaaggcg atcggcaagc tgggcctccg 180

gcaccgggag cacatcgccg cgtacgggga cggcaacgag cgccgtctca ccggccgcca 240

cgagaccgcc gacatcaaca ccttcgtctg gggcgctcgc aaccgcgng cgtcngtgcg 300

ggtggggccg cgacaccgag 320

<210> 50283

<211> 408

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-034-Q1-K1-D10

<400> 50283

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gcgctgagtc catcttctgg agtcctaaat tatggacagg gattgtttga gggcctaaag 180

gcgtataaga aaactgatgg atccatccta ttatttcgcc cagaggaaaa tgctgagagg 240

atgcggacag gtgctgagag gatgtgcatg cctgcaccct ctgtcgagca gtttattgat 300

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<210> 50284

<211> 428

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-034-Q1-K1-D2

<400> 50284

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ggatccaagg agtagggaca caacctgtct gctggaattg caggacaatg aggctgctgt 180
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tgccaaaggt ttgcagttct ggccaaggag gacccttgct ggtggattca tccacgtata 300
taagtttgtg gatgaaggga ggtcacttga acttctacac aagacacagg tggaggaagt 360
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actatatg 428

<210> 50285
<211> 357
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-D3

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cgccgccgtc taccgcgtcc tgcggctgcg gtgttgctgc acctcggtt cgccttaact 180
tccacaatcc tcgccgtcct ggtgctccgc cgcacctccc tttgtactcg cgctggagct 240
gcagatccac cgcgacctgg cgaccaatc ctcctcccgc tgaagaattg gcgaccttgg 300
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<210> 50286
<211> 429
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-034-Q1-K1-D4

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cgtccgtccg gggaaggagc ggtagggagg cggagatgat cgaggtggtg ctcaacgacc 180
gcctggggaa gaaggcgcg gtcaagtgc acgaggacga caccatcggc gacctcaaga 240
agctggtggc ggcgagact gggacgcgcc ccgagaagat ccgcatccag aagtgggtaca 300

acatctacaa ggaccacatc accctcaagg actacgaggt ccacgacggc atgggcctcg 360
agctctacta caactgagcc gncgnccctc tctccctctc gtcaggggtg tctgaattct 420
gaagtcatg 429

<210> 50287
<211> 146
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-034-Q1-K1-D5
<400> 50287

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gccgaaaccg aatataatcg actagcagca caccatctt tcttcccaac acttaatcac 120
caaaaatcgc caacggaacg cccttt 146

<210> 50288
<211> 426
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-034-Q1-K1-D6
<400> 50288

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tcagtatttg gaatgcatga tcgtgccaat atcgaggtct tttgctatgc actcagtcaa 120
aacgatggta ctgagtggag gcagcgtatt cagtctgagg cagaacattt tgtcgatggt 180
tctgccatga cttccgataa tatcgccaag cttatcaatc aagacaaaat acaaattttg 240
ataaatctta atggctacac aaaggggtgcc aggaacgaaa tttttgcaat gcagccagca 300
cctatccaag tttcgtacat ggggttccct ggaacaacgg gtgctgcata catagattac 360
ttggtcacag atgagtttgt ttctccatct agctatgcac atatatattc agaaaagctc 420
gtccat 426

<210> 50289
<211> 227
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-D7

<400> 50289

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ggctccctaa acccaccgcg ctgaccgtcc cccatgcctc aaccttctct cggcttccgt 120
caacatctac ctactccttc gtcttctctg tttcatcacc tatcattcca ctttaactttc 180
acaattctca tcattctcgt acttctccac cccttccttt atactca 227

<210> 50290

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-D8

<400> 50290

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acatttaaac acttggttaga gtcactctat cctacatgga accaattcaa acaataacaa 180
ttgagagcgg agcagctccg tcccaccatg cttcagtacc aaacactatc taagtaaadc 240
ctgatgtacc acatcttcat tgcttgaaca gagttgagat gagttccata ggagtttgtt 300
gtgcaattga tccttcagca tgctaataag caatgtgctt tcttaggagt ttgagtaaag 360
cagtcaattt tattc 375

<210> 50291

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-E10

<400> 50291

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gccgagtggc aactcagccc ccctgctgga ttcaagcaca aggactccga taacctacaa 180
agggtgggtaa ttgaggtcac tggagcggcg gtcacccttt acgcggcgga gacctaccat 240

ttgcatgttg actgccctga gcattatcct atggaggcac ctcatgtcat tactctcaat 300
ccagcgccaa tgcateccaca catctacagc aacgggcaca tctgcttaga cattgtgcat 360
gactcgtggt ctacagcgat gaccgcgagc tctgcctgta tcagtatcct gtctatgttc 420
gctaattcgc cagcaaaa 438

<210> 50292
<211> 113
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-E11

<400> 50292

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gggttcaatc cttacaaaaa tgctgtaaac gattatctat cgctatctag gtg 113

<210> 50293
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-C7

<400> 50293

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acttccatca tcttcaagcc tgaaatcgtt gaccccagac tctattgaag gaaaatctac 180
acttcaccac tatattaagg tcttccatga gtactatgtg gactacggac acaaggtgtt 240
cattgaactc aaggagcatg cgactatctt gaagacagaa atggaagata aacagaaacg 300
cttgaagca gtgaagaaat cacttatatc cgtagaagcc aaagatggag acatcaacaa 360
gaggatagat cgggccttca ggtgtatgaa ctgttgagaa agcgaataga tagcttcaag 420
atgc 424

<210> 50294
<211> 356
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-E12

<400> 50294

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ggtggtggta gcggtggcgg tggaggcggg ggttacggag gaccaggcta tgggtccgga 180
tcagggtatg gtgagggcgg tggcagcgga ggtgctgctg gagggtatgg acatggtggg 240
ggcggcgggc gcggtggtgg tgagggtgcg ggagctgggt gctctgggta tgggtccggg 300
caaggatctg gctacggagc tggcagcaat gctgccgggt gatatgggag tggcgg 356

<210> 50295

<211> 137

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-E2

<400> 50295

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acagaaatac tgtattgata tggacggcac gccggaggca gtgacaccaa tggattaata 120
cttgcaatat ttctctg 137

<210> 50296

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-B12

<400> 50296

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tgctttgcac acgcctagaa tgccatttat ggacctacat gtcattgata atgtatactc 120
gtaacccaaa ccaagaatag ttgaaacggc aggcgctgta aactatctaa actcactaac 180
tcttgcatgc aacctgatag ctatgggtata tggtcagctc acattcaaac actggccgta 240
tcacataaac gtcaagactg gtaaaacctt aaattgacct cactaaagcg tactggaata 300
catacacctt tagaaaggtt tcattaaaac ttacaagtat agaccgatca atctgcacaa 360

cagatgctc

369

<210> 50297

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-B5

<400> 50297

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gggaaccttt gccaacattc gtcttgtaga taagttcttg aagggtgagg ttggacccaa 120
gacaatccat gttccatctg gggagaagct tgcagttttt gatgctgcta tgaaatacaa 180
gaatgaaggg catgacacta ttatcctggc tggtgccgag tacgggagtg gaagctctcg 240
ggattgggct gcaaagggcc caatgctgca gggagtgaag gctgtgatag caaagagctt 300
cgagaggatt caccgcagca atcttgctgg catgggaatc atccctctat gctacaaagc 360
aggggaggat gcagacaccc tgggcctaac cggccatgag cgctacacgg tccaccttcc 420
aaccaatgtg agtgagatca a 441

<210> 50298

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-B6

<400> 50298

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tacgacagct tgcgagctga acttggtgat tgacatata agattggatc tctgaccgac 120
aagccactat gatgaattga acatatcttc taccagacaa aatcctggaa agctgttgat 180
taccatgttt cattacgctg taactacctt catgtcattt cctggatctt gcgaatcatg 240
gattttccct acaataatgc aaccggttgc actggcaact attcctgaaa caaaaagctt 300
aaagaggatt caaccgaaca aatcttgctg gcatgggagt catccgttta tgctac 356

<210> 50299

<211> 440

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-034-Q1-K1-B7

 <400> 50299

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 acagacagag tgtcagtatt atctgaagac cggaacatgc aagtttggtc ctacatgcaa 120
 atttcaccat cccagggaaa aggccggaat tgcagggagg gtgcagctaa acacattagg 180
 atatccactt ctcccggttt gtattatctt gccagttaca tgcctcttc tacatatgtc 240
 tgtttgtttt gctgaaaagg agtctacttt actttttag aatgaaaagg agtgtgcgta 300
 ttatttaaaa acaggacaat gtaaataatgc aaatacttgt aaattccacc acccagaact 360
 tttcaatgtg gtgccttcgt cacgtggttc acctatttat acttctgtac attcctctgc 420
 aagcgtcgtt ccacagtcac 440

<210> 50300
 <211> 427
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-034-Q1-K1-B9

 <400> 50300

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 ctgctggacg tggcggcctt cgcgctcgtc gtcgccgtca cgctcttcgc cgtccgcgag 120
 cccacccgag tcaagttcct cggcagcgtc tgccctgcct tctccatggc cgtcttcgtc 180
 gcgccgtca gcatcatcgt caaggtggtc aagaccaaga gcgtcgagtt cctgcccac 240
 agcctctcct tctgcctcac gtcagcgcc gtcgcctggg tctgctacgg cctcttcacc 300
 aaggaccctt ttgtcatgta cccaacgtc ggcggttct tcttcagctg cgtccagatg 360
 ggctctact tctggtaccg caagccccgc ccggcggcca agaacaacgc cgtgctgccg 420
 acgacca 427

<210> 50301
 <211> 372
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-C1

<400> 50301

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cctggaggag ggtcttgtctg aggcaattga tgatggccgc attggcccac gtgatgatcc 180
taaggtgctc tcccagatcc tctctcaaga gtttgggtgg gacaaggatc ttgccaagaa 240
gatttgggtc ttcggacctg agaccaccgg cccaacatg gttgttgata tgtgcaaggg 300
agtgcagtat ctcaatgaaa tcaaagattc tgttgtggct tgtttccagt gggcatcgaa 360
aggaggtgca ct 372

<210> 50302

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-C10

<400> 50302

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tctttcttga cattccaatc acatcaagggt tccgtatttt tggctctgaat ttcagtgaca 120
aatcattcat ttacttagct ggttatcagc ttcttttctc ttcttggaag cgctccctta 180
ttcctgggtat atttgggtctg gttgctgggt ctctctatcg tctaaatgtg ctgggcatcc 240
gcaagatgaa gcttacacag gttatttcat cattttttgc aagatatctc gcccttttcc 300
caggaagcac atctcgcccc tccaggagtc ttgttggaag cacaccgtcc catagaggcc 360
gtgctgttca gaatcagcca tcaactggat ttgcacctat cgtggaacc 409

<210> 50303

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-C11

<400> 50303

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tgtctcttga cattccgac acatcacgat ctccgtatctt ttcgtctgaa tcccagagac 120
 caataatcga tcatcttagc tgggtactag ctgcttctat aatgtaacaa gcgctacctt 180
 attcatgagc catacccact gattactggg tgtatctatg acataaatgt agctacacat 240
 ccgcaacatg tacattacac acaatatgaa cttatctgac gtaagatact ccttccattt 300
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<210> 50304

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-C2

<400> 50304

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 ccagaaatct cgtgtgtcaa atgattgcc a tgtgaaactt aaaattaagt cttttaaaagc 180
 gcctgaactt cttgatgaaa ctctagaaag tgcaactgtt gactcactaa tgaaaactgt 240
 tatcgaggca ctgactgcta ttatcagagg tgggtctccat gttggtgatc ttcaccatgg 300
 aaagcaagtt atagatgata ataaaacgtc gattcaggct ggtatcgatc aggaagatat 360
 gctggac 367

<210> 50305

<211> 426

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-034-Q1-K1-C3

<400> 50305

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 agcaaaccct gctgcctact ctgagcaaca gcagtttctt acattcaacc aactagctgc 180
 attgaactct gcttcttatt tgcaacaaca acaactacca ttcagccagc tacctgctgc 240

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gatacaacca catttggtgc cgttctacca gcacgctgcg cctaacgctg gcacnctctt 420
acaact 426

<210> 50306
<211> 358
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-034-Q1-K1-B1
<400> 50306

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aagaagctgg aaatcgatga cgaccagaag ctgcgtgcct tttatgaccg aaggatatcc 180
caggagggtca gtggtgatgc tctgggtgag gagttcaagg gttatgtctt caagatcatg 240
ggtggatgtg acaagcaagg cttcccaatg aagcaaggag ttttgacttc tggctgtgtt 300
cgtcttctgc tccatagggg gactccctgc ttccgtggtt atggcaagcg taatggtg 358

<210> 50307
<211> 424
<212> DNA
<213> Zea mays
<223> unsure at all n locations
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<400> 50307

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agtggccgct ggagaccctg cgacggggag ccccccaaga ccctctatca gctccaccga 300
tgccatgaga gcgcaagaag gctgaccccc tatggctgcg aatagggcca tgggtgctgc 360
tggcactcga gcaagccgac gccgactatg accatgtncg catgagtcaa cagactggtg 420

acta

424

<210> 50308
<211> 387
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-H10

<400> 50308

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cttaaggatg ttggcccaa gtaacttccc tgccttggaa tactgtatct caaaacctaa 180
atcgaaaaaa gaagtgtatc aaggattgct acagagacat ccatctggct tgagctggct 240
tttgctatgg caaacacaag tgcaaggatc gctgggtgtt gcaccgtgtc tgcattatgt 300
ggttacattc tggaccctgt attttctatg cttttatgcc cctactgttt agtattaatt 360
atcaataaat ttgttttggg acggttg 387

<210> 50309
<211> 102
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-H11

<400> 50309

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gaagcgttaa cttaaaaaat gggcagccgc tgtttgtgct cc 102

<210> 50310
<211> 202
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-H4

<400> 50310

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ctcagacctc atgcaaggga ggtacaatgc catgagcaaa tgagatgttg aaggcagatt 180
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<210> 50311
 <211> 348
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-H7

<400> 50311

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 gagcccttta tttagggcat tgatttaaga caggcttgga gatgctctta gtccattcac 180
 aatggaagtt taattagata ttttataaca ttaattagta taccacatag gatttgttgg 240
 aggtgttttt ttagaagttg agccctatat ttagggcatt gatttaagac aagcttgaag 300
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<210> 50312
 <211> 328
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-H9

<400> 50312

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 aataagatgg tggatgatctg agtggtggtc ttagtttatc atgtatcgct cgcagtttaa 180
 tttagcgggt taggtgtgga tctgtgaacc ccatggcgcc tctgcttgat tctgttttca 240
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 cttttgaaga tgacctcaag gaaagatg 328

<210> 50313
 <211> 209
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-A1

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cagaggattt gatgaaacct gtgctggtgg ttggcaatgt gaggctgaca aagggaagct 180
gttgcaggaa ctcacgagta ctgctggcg 209

<210> 50314

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-A10

<400> 50314

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agacgcatat gaaagggaga agatctacgt ctaacgcaag caaatccaca tgtacgagca 180
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taccattccc agcgaacatc gaaagcgact tatgcaatgc catgctgctg ccaaattgct 360
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<210> 50315

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-A11

<400> 50315

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tttcatgcag aaaggaatga agaaagcgct gataccttat tttagactca caaatgctga 180

caggggttggg gaccttgaac tggtcagggc tggtgcagac aaatttaca gacattcag 240
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<210> 50316
 <211> 321
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-A2

<400> 50316

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 gcgggagtgc cgcggcacgg tggccgagtg cctggacgag tcagagggcc tggacctggg 180
 ggcgggggccc gcgtccgtgg agtcccaccg ccgcgcgctc tacggcggcg gcggcgggta 240
 catcagctac ggcgcgctgc ggcgggacaa cgtgccctgg ctccggcgcg gggccagcta 300
 ctacaactgg ccgcccgggg g 321

<210> 50317
 <211> 439
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-034-Q1-K1-A4

<400> 50317

tgacctcta ggttttctgt gaaggatctg gccactagga cccctcttgc ccgctgtgac 60
 aggtcggggc ccctctacac cttcggcctt catccaccgg tgcgtctcca ttgtccgtcc 120
 tggctctcac cacctgctcc atcacttggc atcgccgact tggccatcca cgaccgacg 180
 tcatgggcaa actcaccagt agcttagatt tttaatgtag taggggacat tttgaggatc 240
 tctgtcatac ttgtcagcta ggccgacata ctcgctctcc attcactact tctagagctg 300
 agcaagtttt tgatttggtt cattgtgatc tctggacctc tcctgtactt agtttgtctg 360

aatataaata ctatctgatg attctggatg ctntttccat tttctataga cctttcctct 420
tctgttgaag tttgacacg 439

<210> 50318
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-A5

<400> 50318

cagaaatcga tgagctgagc cgtcaagttg ctaggaaaac atcacaagga agtaatgagc 60
tgttggaata tctgaagagt ctagagcctc agaatttgaa ggtacatata cttgtagact 120
gttacatccc tatgaagaca gcagaggatt tgatgaaacc tgtgctggtg gttggcaatg 180
tgaggctgac aaaggggaagc tgttgcagga actcacgagt actgctggcg aggatgtcgt 240
ctttgccatg aatgcgttca taaagcgcct gttggcggtc tctgactcag agcagatgaa 300
ggtgaggggtg aggggaatggt atgcatggca gtgcttttgt ttgatttgaa cttgaacttg 360
tgtgtgtgtg tgtgtgcaga cagcagtctc ggaaacaagt gc 402

<210> 50319
<211> 426
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-034-Q1-K1-A6

<400> 50319

ggtaaaacag gaagtactgt cagtttccga gctacaaaca agctataagt ttagaagggt 60
aathtagaaa tgtacatcaa agtctagtaa tacattgtta aagataaatc aataactcaat 120
aagttcctca tgctttggat ttggggataa catacctgtt ttattttacat gctaataattt 180
ggaccaacaa aaaatacctt aggaacagcc atttgagaaa aaaacaaagc cttttagtcc 240
taagcaagtt agcatagctt agagttgcaa cttctacatg agcacaataa acaganaaga 300
aagagaaaag ganaatanat atatatggca ccaaagcta ttaccatggt ataataata 360
attaatgacc gaaattataa acattnttac aatcttagca aacctntcac gtgtagtctg 420
aatcga 426

<210> 50320
 <211> 435
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-A7

<400> 50320

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ggtaaaacag gaagcactgc cagttaccga gctacaaaca agctataagt tgagaagggt   60
aatttagaaa tgtacatcaa agtctagtaa tacattggta aagataaatc aataactcaat  120
aagttactca tgctatggat ttgggagata acatacctgc tttatctaca tgctaattatt  180
tggaccaaca aaaaatacct tatgaacagc catctgagaa aaactcatag ccttttagtc  240
ctaagcaagt tagcatagct tatagttgca acttctacat gagcacacta aacagaaaag  300
aaagagaaaa ggaaaatata tatatatggc accaaaagct attaccatgt tataatataa  360
atttaatgac cgaaattata aacattctta caatcttagc agacctctca acgtgtagtc  420
tgaatcgaca gaaca                                           435
  
```

<210> 50321
 <211> 439
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-034-Q1-K1-A8

<400> 50321

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cttttgagaa aaatgcaagt cagaagatta ttgagcttga agcacaaata caggcaatgc   60
gtgcagctga agaggcactc aacctagagc taaaagaagc tgaggcaagt gtaaaagctg  120
ctgagaagaa aggctcagac cttgagcaac aactcagtga gattgagagc aaattagttg  180
catcaagtga agaaatagag ttgctgaaag agcgtattca acaagaagct gctgtatcag  240
cagaaagagg aatgcagctt gaagaaacaa tgaccagtgc agaggggatac aaagaaaaaa  300
ttaacgagct acaatcctcc ctagattcct cgatgtctaa aaaccagcta cttgaacaag  360
aagtcaagga gctgactgat aaatgttcag agcatcaaga acaagcacat tcagttcagc  420
anagaagtct ggagctgga                                           439
  
```

<210> 50322
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-A9

<400> 50322

cgaagaagca aacaatgcac attataattc ggtggctatt atcgatgctg atggcgctga 60
tcttggactc tatcgcaaat cacacattcc agatggacca ggatatcaag agaagtttta 120
tttcaacccc ggtgacactg gctttaaggc tttcaaaacc aagtatgcca ccattggtgt 180
tggaatctgc tgggatcagt ggtttccaga gtgtgcaaga gcaatggcac ttctgggggc 240
tgaaatactg ttttatccca ctgcaattgg atccgaaccc caggattgta acctggattc 300
ccgtgaacat tggaagcggg ttatgcaagg ccatgctggt gccaaacttg tccctcttgt 360
tgcttccaac cggattggca gagaaactgt tgacactgag catggcaaga gctcgataac 420
cttctatggg a 431

<210> 50323
<211> 202
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-F1

<400> 50323

cctacgcggt ctgtgaaaga cccatatcat ggaccctata cgttccaacc agcaatggca 60
aattgggtcg gtaccttttt taccttggtg gctccaacaa tcattagccc tatttcaaca 120
ggtacctttg gtgcatttat tggcacaaaa catcagggga caacaacttc aacaacttgt 180
gctagcaaac cttgctgcct ac 202

<210> 50324
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-F10

<400> 50324

gtgacttgta cggcgaccga agccaccgcc ccagccacgc catggactct ctctcgggca 60
 cgggcgcctt ttctggcgac gacgctgact tggacaaggc gctgttcacc gtgcccgcgc 120
 cctactgcgg cggacggggc ggaggactat tctcgtacc gcaaccaag tcaggccgcg 180
 cctgtctctt gtactgccta ccggcgccca aatccaccct tgagacgcgt cttctgtgt 240
 gatatcggcg cccaaatgcg gcaacgcccc cacgttctcc tgcattgccg cgcacaagac 300
 ttacggagga aaccctaagc gcgttgtaga gaaccgaccg cagccgatcc tgcagtacgc 360
 atgcgacagc tccgacgacg acgaggacta cgccaagaag cgccgcgcca gctacaacga 420

<210> 50325

<211> 180

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-F11

<400> 50325

acactcttgc cccagccgtc cgacaaaacg gctaccaaac acctgactct ttgccggccg 60
 cgaaggttta gcattggcgg gggcatcgcc accgctgccg catacctcaa actgtgttat 120
 tgtacccac gaccagctgc tctgcgtcgc accgcgggta cctggacacc taccgtcacg 180

<210> 50326

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-F2

<400> 50326

cccacgcgtc cgggaggggg agcaagcagc agccgtccgt ggaagaagat gtcctagggtg 60
 ctggggcatc tgcactcggg gtgggcggtg gaccaggcca tcctcgccga ggaggagcgc 120
 ctcgatcatc tccgattcag ccatgactgg gacgagacct gcatgcagat ggatgaagtg 180
 ctggcagcag tagctgagac cataaagaac tttgccgtca tctaccttgt tgacatcaca 240
 gaggtccctg atttcaacac catgtatgag ctgtacgacc cttcgacagt gatgttcttc 300
 ttccggaaca agcacatcat gattgatctc gggactggaa acaacaaca gatcaactgg 360
 gccctgaagg acaagcaa 378

<210> 50327
 <211> 214
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-033-Q1-K1-F3

 <400> 50327

 aggaatcctc cgatggctca tcgcgttctc ctactcctct gtctcgcgtc ggccgcccgc 60
 gttggcgccg acgtcgacgc gtaggacccg ctgatccggc aggttggtcc cggaggagat 120
 gacaacgata tggagctgaa cgcggagtcc cacttctga gcttcgtgca gcggttcggc 180
 aagttctaca aggacaccga cgagcacgcg tacc 214

<210> 50328
 <211> 285
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-033-Q1-K1-F4

 <400> 50328

 tcacttttgc tcnnctagtgc cncattata ctactatgt tccttccgac ctagnnttac 60
 ttcaatgggc tatcgaacac tctagcttgt gcaaagccta catagctaca acatagcgct 120
 tgcggcgaag cgtcttataa caaccaatta accaattgca acaacaatcc ttggcacatc 180
 taaccataca aaccatcgca acacaacagc aacaacagtt cctaccagca ctgagccaac 240
 tagatgtggt gaaccctgtc gctacttgc aacaacaggt gcttg 285

<210> 50329
 <211> 194
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-033-Q1-K1-F5

 <400> 50329

 aggaatcctc cgatggctca tcgcgttctt ctactcctct gtctcgcgtc ggcccttgccg 60
 gttggcgatc acgactactc gtaggaccac cttatccctc acgttggtac cggaggacat 120
 gacaacgata tggagctgaa cgccgagtcc cactacctga gcttcgtgca gcggttcggc 180

aagttctaca atga

194

<210> 50330

<211> 217

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-F6

<400> 50330

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cagcggtagc gcgccgtgct ggtagacagg gtgggcggtc ccggtgaggg ttacaaagag 120

ctcttggtcg atctgacagg tgacaactga cattactccg gttataacat ctacttgcac 180

agcgaacaca aatgttagaa aacctagaag ttatttta 217

<210> 50331

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-G10

<400> 50331

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agagctaccg cgtacatgtg atgcctacct tgtgctccat caggaacgga cggacgctcg 120

agagctattg ataccgtcga caaggacgag cttcaggacg ccgataggaa gtacgccgcc 180

actggcacta cgacggctcc tggctcagcg tgcgactaac tcaggagatg tgatgtgtag 240

caaatagcgc gcgcacacca gtcgtgaata aataaataga tccattaata aactaatcag 300

atgaagggca acgtacgacg acctattagt ggtacgcgcg gtagtagcta gcagagtatg 360

ctccgacact gtgacgatct 380

<210> 50332

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-G2

<400> 50332

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cccacgcgtc cgatctattc ctcacgagcg attgcggcgg cggaagtaag aggcgagggg    60
gcactccaac gtgtggaact cgcaccccaa gaactacggg cccggatccc gcgtctgccg   120
ggtctgtgcg aaccctcatg gactgatcag gaagtacggg ctgatgtgct gcaggcagtg   180
cttccgcagc aacgccaagg acattggctt catcaagtac cgctgaagtc agctgggcgg   240
gctatctgaa tgccatctct tggacagtgt agtagaggcg atgccacaat ttttaattact   300
gtcatttaga tgttcccttc agaactctgc tatttaagtc cgccatgttt gtgatggaga   360
actgaaagct tgtttgttat actgattatg ag                                     392

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<210>      50333
<211>      362
<212>      DNA
<213>      Zea mays

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<223>      Clone ID: LIB3079-033-Q1-K1-G3

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<400>      50333

gttctagatc gccgtccgat catgtgattc atcttttggc acagcggcta atatgctggg    60
aattgtctac aaccatgacg tgcgttctca aatgctcata ccgcttagcc gtaaaaattg   120
gtcgcgatat tgaaggttct aagctacatt gtaaaaggca aggaactctg catcttgtac   180
acatactcta gcatagatgc agaacgtaga cctaattattg atgatgatcg atacgacttg   240
cactgctact atctccaatg tttggccaga gactactctc gatgtctacg agaaagatga   300
gcatgacttt ggattctatt gaagcttatt gaagccgttg gtgcagctta tcatgatgaa   360
ct                                                         362

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<210>      50334
<211>      307
<212>      DNA
<213>      Zea mays

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<223>      Clone ID: LIB3079-033-Q1-K1-G4

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<400>      50334

gaagaagtag aggtggaaga ggatgagtaa cgggtgaagg aagttgtgat gaaacgtgcg    60
gttgtggaat gtatatgcag ggcagcaggg gagctgactg atgaatgttt gtgttgcttt   120
atgctgtcta agaaacggta cttgtctcga cgcttagagc cagttagcat agcacatcgt   180

```


gtgcagtatc cggatgaaga attgggaaaa aacaatattt gtaagcgtca gctagacaca 240
 ggcgaaatcgt aataattggt attttgccac ttgaaatggt gcatacttct gtaattaccg 300
 tttgtgt 307

<210> 50335
 <211> 193
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-033-Q1-K1-G5
 <400> 50335

cattcgccgc cgacgcctgc tctctgctgc cgtcgccatg gggagaaggc ctgcgagagg 60
 ctatcgccag atcaagaaca agccataccc caagtccagg tactgccgtg gtgtccctga 120
 cccaagatc aggatctacg atgttggcat gaagagaaaag ggtgttgatg agttccccta 180
 ctgtgtgcac ctt 193

<210> 50336
 <211> 363
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-033-Q1-K1-G6
 <400> 50336

acggcgtata ccacgagcgc accaaccacc accaccatcc tcctccttcg cgaggagggc 60
 ccttcgtcgg ggaagagaac ccgccaggag acctaccctt cctcaatcct ccgaccctcc 120
 atggcctcct cctccctggc cctccctcca atctctctcc tcctcgcgt gctgctcctc 180
 tccgccccct cgcgcgtcgc ctgcgcctcg ctttccttcc tcaccgcctc ctccaacggc 240
 tccgcctcca cctccgccga cccggagctg gaggacctgg ccccgagacc caccttcctc 300
 gaggaggtca tcgacgccgt ctcggagaag tacgactggg atccggacgc cgaggtcagg 360
 gtc 363

<210> 50337
 <211> 359
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-C6

<400> 50337

cagactatac ttagacctca aggagaatga cacaataaca gtgcgattgg gtaacaggta 60
caatacatat agcttaggtg gcaagaaaaa gctggtccta tccactgcaa cctgccttgt 120
ggggaagaac gattttcttg gctttgcata ccttatagtt ggtgggctat gcattttcct 180
ggcattggca ttcaccttgc tgtacttcgt aaaaccaagg aaactgggag accacaacta 240
cttatacctgg aacagactct aggatgattc ggaacaccaa gtgtccgtac tactcgaaat 300
gtagcttgta tgaaatgaaa tgctctgaac cagaaatgtc gatgggcata agcaagcat 359

<210> 50338

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-C9

<400> 50338

tccgatctca tttcctttgg ctgcaggata ggcctaataa gaaaacaaat aattccaatt 60
catatatgaa catttttgcc tccttatggc ttggaaatgt ggaattggaa ttcctttcct 120
ttggcttcag gataggccta ataagaaaac aaataattcc aattcatata tgaacatttt 180
tgctcctta tttcttgaaa atgtggaatt ggaattcccc gaggaattcc gatctcattt 240
cctttggctt caggataggc ctaataagaa aacaaataat tccaattcat atatgaacat 300
ttttgcctcc ttatttcttg aaaatgtgga attggaattc cccgaggaat tccgatctca 360
tttcctttgg cttcaggata ggcctaataa gaaaacaaat aattccaatt catatatgaa 420
cattttt 427

<210> 50339

<211> 320

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-D1

<400> 50339

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tgaggggaagc ggcactccat ccaactgactg accgctcatg gcgaagggtcc acctctacgt 120
 cgcccggggcc tgcgcgcgtcg tctctcgcgt cgccaccccg gccctcgccg gtgacccccca 180
 catgctgcag gacgtctgac cggctgacta cccctccccg gtgaagctga accggttcgc 240
 gtgcaaagct aacttttcgg ccgacaactt cttgttgacac gggctgaaga accctggcca 300
 cagcaacgac ccgggggggct 320

<210> 50340
 <211> 420
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-D10

<400> 50340

tgtggtctat tctgctgtcc gcgctggctc ctctgcaact gtgctctcgc caccagactc 60
 aggcgtggga ccgacaagcc attgcttccc ttcagcaagg cagacgaaca agaagataag 120
 aaggatgtgc cgaggccggt gacatactcc tactctttct ttcacctcat cttctccctg 180
 gccagcatgt actcggcaat gctcttgact ggctgggtcaa cttcgggttg tgagagcgga 240
 aagcttgtgg atgttgggtg gccatctgtc tgggtcagga ttgcaaccga gtgggcgacg 300
 gcaggctctgt tcatatggtc gcttgttgca cccgtactct tccccgacag ggaattctaa 360
 gttcaaccac ggtaagcctg gagcatcaaa cgtgtctact gtggtagcta aaatattcta 420

<210> 50341
 <211> 262
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-D11

<400> 50341

catcccttaa tacctcaacg ttcattaacc ccgcgtccag ttcatactcg taccatccac 60
 aaggctctatc gaccatacaa ccctgaaca tgtctaattc ctcccatttc tcaaacatct 120
 ttcaacacca gatcaacaca ttctacatct actacaacgt caaacttcca ttttacagca 180
 cttcaagcc ttatcccacc aatctcaggc ccaccattac aactatata gctcttatcc 240
 tatgttctac cagcttcata ca 262

<210> 50342
 <211> 102
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-033-Q1-K1-D2

 <400> 50342

aaataatagg tcatatacac attaatgtgt cactgaaaca atgtggtaca tgtaatagga 60
 ggaggtgcat tgaataaaga catagtagta tcacgttttt gg 102

<210> 50343
 <211> 352
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-033-Q1-K1-D3

 <400> 50343

 gaagaagcga aagtatgagc ttggtcgtca gccagccaac accaagttgt caagcaatga 60
 agacaggtag gaggggtccgt gttcgtggag gtaatgtgaa atggagggct cttcgccttg 120
 atactggtaa ctactcatgg ggaagtgaag ctgttaccgg caagaccggt atcctcgacg 180
 tgggtctaaa tgcgtcaaac aatgagcttg tgaggacaca aacccttgtg aagagtgcc 240
 ttgtgcaagt tgatgctgcc ccattcaagc agtgggtacct cactcactat ggagttgaca 300
 ttggtaggaa gaagaaaacc cctgctgcaa agaaagataa tgctgangga ca 352

<210> 50344
 <211> 322
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-033-Q1-K1-D5

 <400> 50344

gccaaagcatc cgtacatcga gctggatctc agttcgtgcg gggagctgga gttccgtgtg 60
 cgccggagcg gctcgtcaga cgagctacta tgacgcggta gttggctgca gccgccggcg 120
 ccaccgagcg ctggcggcaa ggcgcaggaa gttgacgtcg gcggcggcgg cggtatgtgt 180

ggcgccggca ggaggagcgc cgcgacggtg gcgccgctgc agcactcgca ctccgcgggg 240
 ttccgcgacg acacgcatcc cgtggcgggc aggctgcgca ccgagtgtc cgcgcgcatg 300
 aaggcgggcg agacggtgca cg 322

<210> 50345
 <211> 306
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-033-Q1-K1-D6

<400> 50345
 caaatacata tattgtcggg attagctctt acccttttca cccatgatga ggaantggca 60
 gaagcgcgcg agcattcaag gactttggct cctttccatg gttcttctag cgtcgtcctc 120
 tcttgtctgt gcaagcatgg cggtagatgg gcaaaccaaa gaggacatca acgcaacgag 180
 tgtgacgagc atgaacatga cgaggtcatc gtcgtcgagc tacaacatga ctggcggcag 240
 cggagaactt aacagaggtc cgtgcgtaat gagatctgga ttctactggt tccagaacat 300
 tggcta 306

<210> 50346
 <211> 369
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-D8

<400> 50346
 ttcccgaatt gacgcatgca tccacgcgtg cgaacacgcg tccggaagat gtcgatgcat 60
 ctagttccgt ggctacgcag tctggggcaa gtcgtgaaa gtcaagggtt cgtacaagct 120
 ctcggaagcc gacaagaagg cattcctcaa gaccaaggct aagccggcaa atgccgccc 180
 tgccaagacc accgccccca agccggccaa ggccgcgcgc gacaagtcaa agaatgcagc 240
 ggctgccaag ccaaagaagg ccgctgctgc tgggaccaag cgcaaagtgc ccgagaagaa 300
 tgtcgtggcg aagcctaaga agtccccgc cgtcaaggcc aatgccaagc cgaagaccgt 360
 gaagtcccc 369

<210> 50347
 <211> 282
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-033-Q1-K1-D9

 <400> 50347

 gtcgctggcc atcggcaagg acgctcgctt ctacgtgttc aacaacggga gggcgcacgt 60
 cagggtgtcc cgtctcaccg cgtgggagat gaagaagccg gtcatgaacg gggcctgaag 120
 atcttgaata aatatatcac ccatgcatga catagtggcg cctgaggaat ctttcctttt 180
 tttaaaaaac atattttaga tgcgtttat taagagttga ttgtccatac taaagggcgc 240
 cccgttatat gttacaatgg taccagctgc acttctagta ac 282

<210> 50348
 <211> 163
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-033-Q1-K1-E1

 <400> 50348

 aaaagaaaaa aaaaattcaa aaaaaatata aaaaaataaa aaaaaaaaaa aaaaaaaaga 60
 gataaaagaa aaatattaaa aagaaaaaat ccaaaacaat aaaaaaaaaa aaaaaaaaaa 120
 aaacaccaaa caaaacaacg gaactactaa ataaaaaact aaa 163

<210> 50349
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 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-033-Q1-K1-E11

 <400> 50349

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 ctaagaaccg gaatacgate tgacatcatg cgctctaagc tcacgcgggg agtctgtaaa 180
 atccattgtc tatataccgt gagcgtacgg attggactta tacactcagt tctgagaagt 240
 agaaaggctg accaatttat catat 265

<210> 50350
 <211> 425
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-C5

<400> 50350

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cttcaattcc tcattccgtc cagcgatcgg ccttcacgcc agtctcggtc tcttgccaag 120
gcttcgctcg cggttgttag agaggagagg aggaagatga gggagtgcac ctccgtccac 180
atcgggcagg ccggcatcca agtcggcaac gcgtgctggg aactttactg cctcgagcac 240
ggtatccagc ctgatggcca agtgcctgga gataataccg cgggacatca cgatgatgcc 300
ttcagcacct tcttcagtca gactggtgct gggaagcacg ttcctcgtgc aatcttcgtt 360
gatctagaac ccaactgtgat cgatgaggtg cgcactggca cgtaccggca gctctttcac 420
cctga 425
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<210> 50351
 <211> 372
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-E2

<400> 50351

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gcgagggcaa gggatgcggc tcctgctaca agatcaggtg ctccaagcac gccgcctgct 120
ccggccgcac cgagaccgtc gtcacaccg acatgaacta caccgccggc gtcgcgcctt 180
accacttcga cctcagcggc accgccttcg gcaggctggc caagcccggc cgcaacgacg 240
acctgcgccg cgccggcatc atcgacatcc agttcgccag ggtaccctgc gagttcccag 300
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tcgagtacga ga 372
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<210> 50352
 <211> 196

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-E3

<400> 50352

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 aataactttc caataatata acccaaattc aatgacaccc aactacaatt cacaacacca 180
 tagaatgaca aaaccc 196

<210> 50353
 <211> 327
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-033-Q1-K1-E4

<400> 50353

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 cgactggctt gcgtgcgccc gcgcctccgc ctaaccctgc tagcttgccgc gccaacgcc 180
 agatgccctg agcccaccgc cggctgtctg tgcacgcaag tgaaccatc cggctacctg 240
 ggcacgccat ccgacctccc tgcgaacctc tgtatctgcc gatattctc aagaacacag 300
 tgcanacagt aagttctgga gacagca 327

<210> 50354
 <211> 403
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-033-Q1-K1-B1

<400> 50354

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 gcgacgacgc tggcctggac ccaatctcct cgatatttgg gccaaagctat gctccggagc 120
 atcatcccg tccacctggc agtttcgccg cgtgcacgag gctctcgct tccaaccac 180

agacaaggta cttctcggag agcacagggg tegtctcgga ctactcttcc agcggcattg 240
 tacatagagg aagggatcca ggtagggcat acacctgttc agcgggaaccg ctcgcttcgg 300
 ctgcgggcggc gcaccagcac cagcgggtgag gcgtattaaa tnttggctgc atgtcattcc 360
 taggctagct cgattcaatg tancgagaga gagaggaaca aat 403

<210> 50355

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-B10

<400> 50355

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 ctggaatata atggaagaat tagatgattg gcctgtgctc gcaaagaaag aatacgatga 120
 ctggcttagt tcaaaggctt catcctctta taacctgtt gatgatatat taaccactga 180
 gatgaacagt tagctgccac aatctttcac ctacggaggc ttcatctctc aatcatgtgc 240
 acccggtcat tcaagtttaa gtgacaacac gaccaaggaa gagccctcta tgacatttac 300
 tggttttcaa ggatgcactg tcagtggaaa cggaatgcct tcatctacag tgccaataga 360
 tgatatctat ggatatcgag gtccacgttc acatcggatc ttacgtacgc caatgccatc 420
 ttatggtaat gatata 436

<210> 50356

<211> 216

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-B11

<400> 50356

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 cccgatcatc ttcaacgcga agacgacca cccacaaaac tacttcgaac actcaaacca 120
 ctacatcccc attccccaga ccaacactca ctttaccgat actattcacc cgcaacacga 180
 ctttccaccc aacatgcact acatctacac cttcct 216

<210> 50357
 <211> 385
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-033-Q1-K1-B3

 <400> 50357

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 tttcactaga gaaactctcg cagcagtcaa aacatcttac caagatactg cctgctccca 180
 gcccatggct gtgcttttca atatttccat gcctcagcca gaagactgta gcaactgggg 240
 tctgtagagt tcaactgtggg atttgttcct caaggagag cttctgtctc ttgcatggca 300
 aggcagtgga gaagctagtt gcctgcttgg ataataataa cgagaaagta gtcgaagctg 360
 ctctagcagc gctgtccact ttact 385

<210> 50358
 <211> 396
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-033-Q1-K1-B4

 <400> 50358

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 aactgttcc tggcggcggt gtgcttcttt gctgcagctg tcctcttcgt ccccgaggct 120
 ctctttggtt cccctccgg cgcaggcgcc gtcaccgctg ccaagctggc ccacgtcctc 180
 tcctttgcca ctctctgggg cgccggcctc tgggccacct ttatcggcgg catcatcatg 240
 ttcaagaacc tgccgaggca catgttcggc aacttgcaga gcaagatgtt cccggcctac 300
 ttcacgetta tctctgcctg cgcagccatc tcggtcgcca ctttctcgca ccttcacccg 360
 tggaagacng cctccaccgt ggagcgctac caactt 396

<210> 50359
 <211> 417
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-B5

<400> 50359

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ctgtcagtga ctacaagcag aaaaatcgag actgactcac tccagtatgt ccacacaaaa 120
gatctgatta tggattacct gaggataaat ttatttttgc ttgcttcaat cagctttaca 180
aaatggaccc tgagatattt gacacatggg gcaatattct caaacgtgtt cccaacagcg 240
cattatggct tttaagattc ccggcagctg gtgaaactag agtgagagca tatgctgctg 300
ccagaggagt aagatcagat caaattgtat tcacagacgt tgccatgaaa aatgagcata 360
tacgacgcaa tgccctggca aaccttttcc tggacacttc cctttgcaat gcacaca 417

<210> 50360

<211> 134

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-B6

<400> 50360

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agagttcagt ctggtgagag gaattgacat tgaagctcac ccgtatttaa tcaaagtttg 120
tactgactat aaaa 134

<210> 50361

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-B7

<400> 50361

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ggttggtttc tactgcccct ccgatcggg atggggttcg tgaggttcta catggttcgt 120
gttcctgggt tagcggatct agatggctgc gtcagatgtt gaataccgct gcttcgtcgt 180
cggactcacc tggggcactg acgaccactc ccttcacaac gccttcagca cctaccgca 240
ggctctcgag tccaagatca tcctcgatcg ggagacgcag aagtcgccg gcttctgctt 300

cgtcaccttc tccacagaag aagcgatgcg gaacgccatc gatggcatga acggcaagga 360
acttgacggg cgcaaca 377

<210> 50362
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-B9

<400> 50362

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aagggttcaac caaattacag tggatggtga tactagtacc aatgactgtg ttattgctat 120
ggcaagtggg ttgtctggtt tatctggaat tcaaagtctt gatagcattg aggctcaaca 180
gttccaagca tgcctagatg cagtaatgca aagtcttgca aaatccatag catgggatgg 240
tgagggtgca acatgcctaa ttgaggttac tgtaagtggc gccacaacg aggcagaagc 300
tgctaaaatt gctcgttcag tagcatcttc ttctttggtt aaagccgcta tatttggaag 360
agacccaaat tggggacgaa ttgcttgctc agttgggttat tcaggcattc aatttgacgc 420
aaatcgactt gata 434

<210> 50363
<211> 355
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-C1

<400> 50363

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cccggggcgc gaggaacttc ccacttcag gccagcttg tctggttagg attagggctg 120
tcgcttcgca cgtgtccggt gtgccgccgt cggagatgtc gcggacgctg gtgcagccgg 180
tggggcagaa acacctcacc agcgtggccg cgcacctatc ggccgcgagc taaacgagga 240
tcctaaccctt aaccctgggc agactgatac tctactcctg gatgacaata ctaaactact 300
tcggcaacaa cattcccatc aacggatcta tgtctggctg tcatcgcgaa gatca 355

<210> 50364

<211> 302
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-033-Q1-K1-C10

 <400> 50364

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 ccggctgaac atacaggtga acacgccgct aaaaagcaag cgacgtaacc aagggcgacg 120
 ccaaggcgga catcaacgcc gctatcagct ctgctaatat ccctttgact gtcacgttca 180
 cagacacttg cgcaagctac gacaccaacg tcgagatcga gaagatctag gagaagctcc 240
 agctgaagag gcacctgaag atgcacacca tgctgaacac ttacatggcg gatacctcg 300
 cc 302

<210> 50365
 <211> 160
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-033-Q1-K1-C4

 <400> 50365

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 taaaaaaaa aaaaaaaaa aaaagaaaaa tgtaaaattt aaaaaattt aaataaaaaa 120
 aaaaaaaaa aaatataaaa ttaaaaaataa aaataaatat 160

<210> 50366
 <211> 388
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-033-Q1-K1-A9

 <400> 50366

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 gaacaaatcc tacggcgtga aggtgcccg cgcgccggcg tcgtggagct acagcctcaa 120
 cctgcagcgg ctgtgtttcc ggacggcgta cgtggcgagc accacggggc tggccctcct 180
 cttcccctac ttcaacgagg tgctgggcgt gctgggcgcc gtcgtcttct ggcccctcgc 240

catctacctc cccgtcgaga tgtactgcgt ccagcgcggg gtcctgccgt ggacgcggac 300
 gtgggtcgcg cttcaggcat tcagcgtcgt ctgcttcgtc gtcggcacct tcgccttcgt 360
 cggctccgtc gagggagtca tccgcaag 388

<210> 50367
 <211> 157
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-H3

<400> 50367

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 aggggggaga caggaatgtg gacgggatta tgaaggagat gattgagcgt ttggaatcgc 120
 gtgtgaagac ggacgaggaa accggggacg aaaagga 157

<210> 50368
 <211> 325
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-H5

<400> 50368

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 aagcaccacg gcatacgcta cctattcgga gatgggtcac gactgggtgtt ccgtctatac 180
 ataaccgtgc atgttgagtgc ccaccatccg tgtctacact cgacgatacg agaacgattc 240
 cttcaagacc gtcagggatt cacaggatgc ccttgctcca atggatgatg ttgcgcttaa 300
 acttctccaa aatccaagag tacac 325

<210> 50369
 <211> 235
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-H7

<400> 50369

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 aggggtccggt agagcgacct gcacttgatt acgaacggga cggttgcgcc atcgccatcg 120
 accctgaaag cggtagagga aaccctggag gccaccgcag ctgtcgaaaa aatcaccggg 180
 ttcaccgcta cgcggatccc cttgtactac cccttctgcc tcaacggagt cagca 235

<210> 50370

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-H8

<400> 50370

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 attgccgcca gtgtctgctc gatccgatgg ctcccacgaa gaagtcgaag aagagcacag 120
 agagcatcaa caacaagctg cagctgggtga tgaagagcgg caagtagacc ctggggtaca 180
 agaccgtcct caagacgctg cgcaactcca agggaaagct gatcatcatc gcaaacaact 240
 gccctacact taggaagtct gagattgagt actacgccat gctggcctaaa gttagtgtgc 300
 accatttcca cggaacaat gttgatcttg gactgactg cggcaagtac tacagggtgt 360
 gctgcctcag tatcatcgac ccatgtgact aggacatcat cagtaccacc cttggcaccc 420
 agtgagccag ccccggaacc attgca 446

<210> 50371

<211> 313

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-H9

<400> 50371

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 acgtggtggc ctggcctcgc tccggagacg gtctctgtga agctacgcaa ggccaccacc 180
 gtccgaccga tcgtagtcgt cgacaaagaa atgactacat gcatcttctg atctgtctga 240
 ttgagtacat tgaacacttg ggggacacat ttggcgaaga acacggatcat ctttatcttc 300

tactttcttt aag

313

<210> 50372

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-A1

<400> 50372

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ttatgttccc aaggcgtgca cacaaggta aggctgggtga ctctactcca gaggagcttg 120

ccaccgctac ccagggtccag ggtgactaca tgccatttac tcgtgggtgag aaacgttcag 180

ttgaggttgt gaaggtcaca gatgagatga agtcatttgc tgcctatggc aagctccgcc 240

ttgagcggat gaacaagaaa catcttgggtg cccgtcataa gaaggcagct taagcagaga 300

atgaagataa gaagtgaagc tgttgaagat agtaccctgt tttgttctat tcaatcatta 360

atgaatgcta ctac 374

<210> 50373

<211> 350

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-A10

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aaacggagtc tatgaagctg cagaagcggc tcgccgctag cgtcctcaag tgtgggaaag 120

gcaaagtctg gcttgacccc aatgaagtca gcgagatctc catggctaac tcccgccaga 180

acatccggaa gttggctaag gatgggttta tcatcaggaa gcctcagaag gttcactcta 240

gggtcccgtgc aagaagggca catgatgcc aagcagaacgg aaggcactct ggatacggca 300

agcgcacatggg taccaaggag gctaggctcc ccaccaagat tctgtggatg 350

<210> 50374

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<212> DNA

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<223> Clone ID: LIB3079-033-Q1-K1-A12

<400> 50374

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atcatccact cgatcatcga catggacgcg gacgtgatca ccattgagaa ctgcggtgcc 180
gacgagaagc tgctctccgt gttccgcgag ggcgtcaagt acggcgcggg catcggtccc 240
ggtgtctacg acatccactc cccaggatc ccgtcggctg aggagatcgc cgaccgcatc 300
gacaagatgc tggcgggtgct ggacaccaac atcctctggg tgaaccccga ctgcggcctc 360
aagacccgca agtacacgga ggtcaagcc 389

<210> 50375

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-A2

<400> 50375

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cgtcgatccg gctgcggccc ggcgtgctag atcgctaccg atcatggtgg tggatgagat 180
cgccgacggg gtgaagaacc tcaccgttac cgagacgcg gcggcttcag gcggagaggg 240
tcatacgagg ggcggcggct gcagcagcaa ccgcatccag gtgtccaaca ccaagaaacc 300
cctcttcttc tacgtcaacc tctccaagag gtatatgcaa cagcacgaag atgtagagct 360
attcgatctt ggaat 375

<210> 50376

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-A3

<400> 50376

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 gctgagcaag atcgcttgca atcggctgca gaaggaactc gccgagtggc aactcagccc 180
 ccctgctgga ttcaagcaca aggtctccga taacctacaa aggtgggtaa ttgaggtcac 240
 tggagcggcg ggcacccttt acgccggcga gacctaccag ttgcaggttg acttccttga 300
 gcattatcct atggaagcac ctcaggtcaa ttttctcaat ccagcgccaa tgcattccaca 360
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<210> 50377

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-A4

<400> 50377

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 ttcgctgctt cgagacatcc acagagaact tccatctagt ggtgtatccg gaggtgttat 180
 gtctttgatt gatggttcat atgagtatta tcattatctt cacgatggta ttgatgacaa 240
 tggatggaga tgcgcataatc ggtctctaca aacaattgtc tcttggtaaa gattgcaaca 300
 atattcatca atagatgttc cttctcacag ggagattcag caagttcttg ttgaaattgg 360
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<210> 50378

<211> 365

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-A5

<400> 50378

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 taaatggccc gaaccaaga tagctaaagg agcggagtac aacttcatga tgaagctagt 180
 gcccaaggct tgagtcttga acctataag atctgactag ggaaaaaaag ggaaaggttt 240

gcccgtgtag gttctgcacg gatgcacgat ttgctctgca ttcattgtgta cagcatttgg 300
tgtatagtgg aagctacttt gtaaattgga tatataacag ctacgtgttg gtccatagtg 360
agtga 365

<210> 50379
<211> 285
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-A6

<400> 50379

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ccttttctcc atgcgcacgg cgtatctcct tcttcgactg ctctcactgt gacggtgaga 120
cattcgaaaa gtccatggca actgaaacgt gaacatatgg tgtatgtttc tccccctaat 180
tcggtcgtat ttggatgctt gagtcctgca ttgcatgatg aagaacattc tcagtctctc 240
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<210> 50380
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-A7

<400> 50380

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cgatgcagcc gctgcaccaa ccgtcgatga acggccaaca cggtccgcct cctccgcagg 120
gatccggggg tcccacggct tcgcagcagc aagcgccacc gacgtcgtac taccagcagc 180
agcagcagca gcagcagggg ccaccgtctc agtactacca gcaggggtacc gcacaggcgt 240
gggcgcagca gcaacagtac gctccaccgc cgccgcagta ccgcgcctca gatgcagcag 300
tacgtcttac caccgcagca gtacgcctt ccgcagtagc agcagtagc cgctacgccg 360
tagcagcaat acg 373

<210> 50381
<211> 286
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-F12

<400> 50381

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cccacgcgtc cgccacgcg tccgcccacg cgtccgctcc gccaccacca cagccgttgc   60
cggggcccgcg agcgaccgta gcgaggatgat tgcaatgggtg gcctccactg cttcccgctt  120
ctcgcccccg cgcttcagca ccccttcccc gtctcttcat cctccaaacc gccgctcgcg  180
cttctccctt gttcgcgag ccaagttgga agctgtgctg tctattgggtg ctcatctaata  240
cccacacca agaaaggctg caagtggcgg agaagatgct ttctttt                    286

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<210> 50382

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-F8

<400> 50382

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ctcgaaccac ccagccctaa tgggtcagca cttcttgaag caggctcgctg cattgggggat   60
tggcgggcgga gccagccagt ccatctatga tggcgggcttc cagggcatca atactgtcac  120
cggcacaact tccgcccagc agcagcagca gctcatgtac tactagagta ctactactcc  180
atgaggcacc cagctaccta tcccttcaag aggaaggcga ggatgaatgg atgatgcccc  240
ttactatacc cctatacata tagtagatga tgaagtcatt actaggacct tttttcccta  300
atctttttta gacccatcta agtaacatgt cctctctatg ctagctatat aattgtgtat  360
ttctgggatac ataaagccaa ggttcttagt agtataatct ttctgtgttg accatctttt  420
attgtgatgt atggattttc gttggcac                                     448

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<210> 50383

<211> 318

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-F9

<400> 50383

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ctgaatgaag cagccattct ggctggaaga cggggaagga cagcaatttc ttcaaaagag   60

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atggatgatt ctattgacag aattgtagct ggtatggaag ggaccgtgat gacagacggg 120
aagagcaaaa gtcttggtgc ttaccatgaa gttgggcatg caatttgagg aactttgacg 180
cctggccatg atcctgtcca aaagggtacc ttagttccaa ggggtcaagc tcgtggtctt 240
acatggttta tcccgatgga tgacccaaca ctcatctgca ggcagcaact ttttgccaga 300
attgttggcg gccttggt 318

<210> 50384
<211> 275
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-G1

<400> 50384

gacgtacgag tccggtctcg aacgccgaca ttgaagcctg ttggccgtgc tcaccccggc 60
tagcaggcta cgcgccaggt ctccaacttt ggttcaactca tctggcacta tactgacgct 120
cgccatcgcc agcgactaac taatcaccct cagtgaacat ctacgctgg tcagatgac 180
gagggaatga cagtcccaga agcaccgatc aagtaggcta tcgaacatat acagacacat 240
ttgcacggga atgactatga aggcatacac ctatt 275

<210> 50385
<211> 209
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-G10

<400> 50385

gccaccttcg actaatcaca cttcacgtac gccgcacgcc ccagccggga tccaaattaa 60
agaacttctt cttctattaa ttacagtata ttgtaatttg gctgctggta cgggtggtggc 120
atgatttgag atgtgcatga tgatccttgt gtaattttat taccaagtct cttcttatat 180
ttacatgttc atttgcttgc ttcttgcac 209

<210> 50386
<211> 107
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-G12

<400> 50386

gctttttgga aagatggaac ttatttttaa ttgggatttt ctcaaaacta gaccaaaaagg 60
gaagggatta atgccatatt aatcccctat tggacacttg cccaatg 107

<210> 50387

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-G5

<400> 50387

gtctccaacg cgcgcattga agcctgttgt cctggtcac cccggcgagc aggctacacg 60
ccaggctgcc gcctctggcg cactccgttg gctctatcct gacgctcgcc atcgccgttg 120
agtaactcgt caccctcaat gttcgctca cgctcgccag gtgtttgagg gaatggtggt 180
accaggagca gtgacgtct tgcctattgt atttatacgg aaacatttgc acggttttgt 240
ctatgtttgc atacacctat tgtatgtata cttctaactg ttggtatgga ggtgacctgc 300
aacttctcaa ccaaggcgag cacagtcacc cttgtgccac agcatgccct ggactctacc 360
aacaccgtga a 371

<210> 50388

<211> 442

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-032-Q1-K1-G6

<400> 50388

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cgcgctctgc tctaagtgga cttcttaagg atgatgggat tctggtgatt ccaactgctt 120
tggggtgccc cccgaagctt aacgctaagg aactctcgct tgaaagctac aattctcaga 180
cactacgcct tttgtcttta gctagcatgt cagggtgttg ccaggtttcc attcctttgg 240
gtacacatga taagtgcctt atttcagttt cgttgattgc taagcatggt ggtgatcggt 300
ttttgttga caccacacan accatgtata caaccatcca ggagccagtg gagatactag 360

cgaaatctag tgtttcaagt aaacaggcga tgaatgaaga ggcagctgaa gctgctaaag 420
 agaaaggtaa tgctgcattt aa 442

<210> 50389
 <211> 442
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-G8

<400> 50389

gattcgtcac tccacctcg tcgcgccgcc gtctgccgcg tccccggcca gctcgcagc 60
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 ccagcaaggg cagctagagt caccggtttc ctcaagccct acctgttgag gatgcatttc 180
 tcaaacaagt atgtatctgc tcaggtcgtc cacaccccaa cagcaactgt tgcattgtct 240
 gcaagctcgc aggagaagct gttgagacca aacatggagt cgaccgcga cgtcgcagca 300
 gctgcaaaga ttggaaagtt gctcggcgag cgctgctcc tcaagggaat acctgcagtg 360
 tccatccaca tgaagagaga aaaaagtac catgggaaag tgaaaggccg tatagattca 420
 gtcagagaag ctggagtcaa ac 442

<210> 50390
 <211> 256
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-032-Q1-K1-G9

<400> 50390

gcgactctat gattcacggc ggagattatg acaagggcaa tgggtaccggg gggaagagca 60
 tatgtggacg caccttcaaa gatgagaact tcaaattggg tcacactgtg acctggagtg 120
 ctgagcatgg ctaatgctgg gccgaacacc aatggcagac agttctttat ttgcactgtc 180
 aagacacctt ggttggacgg aaggcatgtc atgnttggtc aggtcctgta agggatggat 240
 gtcgtaagtc tgatcg 256

<210> 50391

<211> 218
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-032-Q1-K1-H1

 <400> 50391

 ctacattcta tggccaagtt gtaatgctat ccactcatcc atatggttgt cgagttattc 60
 agagggttct agagcattgt gatgatccta aaacacagca gataatgatg gatgagattc 120
 tgcagtctgt ttgcttgctg gctcaggacc agtatggcaa ctatgttggt cagcatgttc 180
 tggaacatgg caaaccccat gagagatcag ctattatt 218

<210> 50392
 <211> 304
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-032-Q1-K1-F11

 <400> 50392

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 cctgggttgt taatggaaat ggggttgact tggtcagaaa atgcctaagt tgctatgaac 120
 ttattttctgt tgcattgccat gctttctttc atggcactaa gaaagctgat gagtataacc 180
 agatttttca gcacaacaaa tgataggaga agctatatat caagcgtcca acaatttttt 240
 gagggcttgg aaaatatcaa tctctggaca tttaatggac cagggttaatt gggattatcc 300
 aacc 304

<210> 50393
 <211> 258
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-032-Q1-K1-H11

 <400> 50393

 gtcagttcag cggcgggttg actggccctg atgaagcttc cgaagtctga agcactgtca 60
 gctaggatgc ttctgattgg tgctggtaaa atgggaaagc tagtgatcaa acatctgggt 120
 gccaaaggat gcaagaaggt tgttgaggtg aaccgctccg tggaaagggt ggatgctatt 180

cgtagggaga tgaaagatat agagatcgtg tacaggcctg tctcagacat gtatcaagct 240
gctgcttaag ctgatgtc 258

<210> 50394
<211> 320
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-032-Q1-K1-D6

<400> 50394

caattaacta gcttcttcta gctctagcta ggctcgtctg ctgcaagaag gtaacagcgc 60
aggcatggag gggaaggagg aggacgtccg cctgggcgcc aacaagttct cggagcgcca 120
gcccatcggc acggcggcgc agggcacgga cgacaaggac tacaaggagc ccccgacggc 180
gccgctcttc gagcccgagg agtcaagtc ctggctcttc taccgcgccg gcatcgccga 240
gttcgtcgcc accttctctt tctctacat ctccatcttc accgtcatgg gcgtctccaa 300
gtccacctnc aagtgcgcca 320

<210> 50395
<211> 464
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-D9

<400> 50395

cccacgcgtc cgattttgat gtggagctca cttacaatta tgggtgtggag agctataaca 60
tggggactgg ttttgccac tttggaattg ctggtgagga tgttgcaaaa acagtggaac 120
ttattaaagc ataaggagga acagtcacaa tggagccagg ccctgtcaaa ggtgggaaat 180
cagtaattgc ctttattgaa gatcctgatg gttacaagtt tgagcttata gaaagagggc 240
ctactaccga gccttagtgc cacgtaatgc ttcgagtggg agatcttgat cgtgctataa 300
atctctatga gaaggcattt ggcatggaac ttcttcgcaa gcgagacaat tctgagtaca 360
agtatacgat tgctatgatg ggatatggta caaaagacaa aaatggctga ttggagttga 420
cctacaacta atgggtgaag gaatatgata agggaaatgc ttat 464

<210> 50396
<211> 292
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-E10

<400> 50396

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cccacgcgtc cgcccacgcg tccgctatct accagtggaa tagaaacgat gatgggaatc 60
ctggtccagc agacaccgtg atgttcata accagtattg gacgagcagc acgcgccgca 120
ggaggctgaa gaagaaccat ctccatctcg aggaccttga ggatttgatc tccctattat 180
agaaaaccgg gttcgcagga cgcataaact gtgtgtgggg gaataatcgc aggttagcac 240
tgttgctagt gtgcccgcct ctcttggaat ggaagcagca gagccagcta tc 292
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<210> 50397
<211> 374
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-032-Q1-K1-E12

<400> 50397

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acggacaact gtgaatgtcc gtatcactgg acttaccctt ggacttcatg gttccacct 120
ccacgagttt ggtgatacta ccaatgggtg catatcgaca ggaccacatt ttaatccaaa 180
caatctgaca cacggtgcac cagaagacga agtccgtcat gcgggtgacc tngaaacat 240
tgttgcaaat gctgagggca tagccgaggc aaccattgtt gataccaga ttcctttgac 300
tggcccaaaa tcagttgttg ngagagcgtt tgtgggtcat gagcttgaag natgatttgg 360
gaaagggggc catg 374
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<210> 50398
<211> 361
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-E6

<400> 50398

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acgtgcgtca tgcggaactg ctgccttgcc ccccgcgctt ttctcttcca tgtttgctgc 120
tacaatcttg ttgttgggca ttgcagtgca cgggtgcacac ttgtgtagcc cgcctcgaga 180
attcctgcct ctgcatctgg tcagttctaa aatgatttgc atgttggcta tgttgtgtaa 240
gctctattta tgggtggctc gctgagacgg gtatttggct tcgcagttat ctagctatgt 300
gatgtactgt tgtcttgtcc ctgggtatta tatggtacac tgcagccagt aatagtaaaa 360
a 361

<210> 50399
<211> 395
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-E7

<400> 50399

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gcaccgccac tgctctccac tctctctcct cgtggccgcc gccctcgccg ccgtccctgc 120
tcgcgcggcg ctgggcggcg ggcgcggccc gctgctgggc ggggtggaacc cgatccctga 180
cgtgagcgac tcgcacatcc aggagctagg cgggtgggcg ctggggcagg cgaagcacca 240
gaagctggcc gccgacgggc tgcggttccg ccgcgtggcg cgcggcgagc agcaggtcgt 300
gtccgggatg aactaccgac tctacgtcga cgccgccgac cccgccggcc gcaccgtgcc 360
ctacgtcgcc gtcgtgtacg agcaggtctg gaccc 395

<210> 50400
<211> 395
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-032-Q1-K1-E8

<400> 50400

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tcggttgaca ctctcatcga ggaccatctc tgcgctgagc cagtgagcga atacgtccag 120
agctgcgaca ttgtcgctt caacaagatc taaatttcct tgtgatggcg gcaatgggtg 180

ttggtgggca ctgtaccagc ctaatttata atgttccatg agcatcttca agagttactc 240
 taaattatca tttggagtca tttacataaa aagcactttc tataatctttt taatctcaac 300
 aacttttcta tatcttgctt gcaccctgga gagctattta cgttttctat ctctagctag 360
 cgagaaacct gnatggctgg aatagaagat cacta 395

<210> 50401
 <211> 448
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-032-Q1-K1-E9

<400> 50401

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 ctgcgtcgag atggctgagg ttgtatatga cagaatgact ggacggagcc gaggatttgg 120
 attcgtgaca atgtcttcgg ccgaagaagc cgaagctgct gtcgagcagt tcaacggtta 180
 tgcatttcaa ggaagacaac tgagggtgaa ctgcggggcca ccgccaccta gagatgaatc 240
 cacaccaaga gcaccaaggn gtggtggtgg cggcggcggc ggcggctatg tcgattcagc 300
 taacaaggtc tacgtgggga accttgctg gggcggtgac aactcgactc tggagaacct 360
 gttcagtgag caagggcaag tgcttgatgc taaggctcatc tacgacaggg atagcggcag 420
 gtcaaggggg tttggtttcg tcacctat 448

<210> 50402
 <211> 241
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-F1

<400> 50402

aaaaagagca ggcgggacag tccggccctg atgccggtta ggccggacga tccgcggtcc 60
 ggacagtccg cggatgatggc tcggacggtc tgcgcgtgcg cagagtcagt taggatttct 120
 agtttctcgc gggatttggtt acctaaaacc gcgggattaa ctcggaatc tgttgaagc 180
 ggatccagac ctccccttta tatcgatgaa gggctacggc cgattgtact ccctaacaaa 240

<210> 50403
<211> 440
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-032-Q1-K1-B9

<400> 50403

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gcggaagctg tgggtagacg agctgaagaa gcagaaggaa gccgcgagga gatggggcgt 120
cggctcatca ttagagggtg caggagcgac cgaggaggca ccgtcaagga gctatcagta 180
cgaatacagc ggctctaacc ccgtggaggc caaactggct ccgcttcttg caagagctaa 240
cctcgtcatt gccagggata ttgagtgggc aaacatcatg ttgcttttg agcaggagag 300
caggtatata ataatggacc cactcttcc acaatctcca gtaggtttta ttcgagagaa 360
aagcancatc atctttagac agttactcag aacaagacgg ccatttggtg cagaaataac 420
tgatgctatg ggtaacgaga 440

<210> 50404
<211> 262
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-032-Q1-K1-C10

<400> 50404

ggtcactata gatgtcgcaa gtcctgaggc tgggtgttatt gaaaagctca ttgctagtga 60
aggcgacaca gttactccag gcactaaagt tgcaatcata tccaagtctg ctcaacctgc 120
tgaaacacat gttgctccat cagaggaagc aacttcaaaa gaatcatctc caccaaaagt 180
tgaagataaa ccaaaggtag aggaaaaagc cccaaaagta gatcctccca agatgcaagc 240
accaaagcca actgcancca tc 262

<210> 50405
<211> 353
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-C11

<400> 50405

aagaccaagt cgtggaagaa gctagtgaat gttgctgtgt caggcgcggc cgggatgata 60
tcaggtcacc tgctgggtcaa actcgcttct ggtgagggtt tcggacaaga ccaaccaata 120
gcacttaagc tactcggctc agaaagatcg tttcaggccc tcgaagggtg agctatggaa 180
ctggaggact cgctcgatcc actgctgagg gaagtcagca ttggcataga tccttacgta 240
gtctttcaag atgtagattg agcccttctt attggcgcta agccccgaag tcccggcatg 300
gagcgagctg cgctactgga tatcaatggc caaatctttg ctgaccaggg gaa 353

<210> 50406

<211> 448

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-032-Q1-K1-C12

<400> 50406

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cagaggaata aagaccagcc aaagacctct agctgtagcc gcataaagag ctggacgtgt 120
aatcatttac tctgtgcaag tttaccagtg atgcgatctg tatagatgtg tgtcttgtcc 180
agctatacgt ataccggaga tgaaaggaga cggaggcagt gaagaaatat cctttatatt 240
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acgcacaggt ggcacatgaa ctaacaaagt agctcttttt tgaaaggaaa cggaattggg 360
ggtcgatgaa ccttctggtg ttattcttca gactggtaaa cgatgtaaca tggttgataa 420
tcaataaagt ccgtcggatg gttttcct 448

<210> 50407

<211> 171

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-C6

<400> 50407

catgccctag gaccaggggtg tacttcacgc tgtctcacag gacctcgaac tgggcctacg 60
atccctgcac ctgaagacga accggtatca ggatgtggtc acaaggagga gcctctatac 120
gaggccgacg tcgctcggag gcgcgcctat gttgtcaact gccgaggcac c 171

<210> 50408
<211> 317
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-C8

<400> 50408

cccacgcgtc cggccaaaca cacgcgaaaa gaatgagttc gagtacaggt tacagagagg 60
cagagagcaa agatgtgtgg tgggtcgcgtc ctcgccgagc tcattcccgac cacgccggcg 120
cgccgcggcg gcgcggcggtg gcccgccggc aagtgcgaagc ggcggaaggc gaacgacttc 180
gaggccgcgt tccgggagtt cgacgaggac tccgaggagg aggaggagga cgaggggggtg 240
gtggagagca agccccgcct tcgtcgtccg cgctcgtcc gcggcgacgc agcccagggc 300
gcgccaggag cagcgga 317

<210> 50409
<211> 277
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-C9

<400> 50409

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tgagggtcaa gaagggtgag aatgatctgc ctggtctgac tgacactgac aagccaaaga 120
tgaggggtcc caatagggcc tccaagatca gaaagctggt caaccttaac aaggatgatg 180
atgtacgcaa gtacgtgaac acataccgca tgacattcac taccaagaac ggtacgactg 240
tcagcacggc acctaagatc caacggcttg tgacacc 277

<210> 50410
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-D1

<400> 50410

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tgctgttggg gcaagggaaa tgacttcaca cttttttatt gattctgac tgatgcatcc 120
ttagtgtagc actttagaag gttcattagg ctgtaatat tttgcatgcc tcaagaaaat 180
cacttttcta tctagagaat taggtttagg taaagacatt tttttatctt cgaccatcat 240
gtcaagaata gtggtatatt agaaagcatg tcgtcaatat gttgatacca ttttttttta 300
taaaaagtga tgtagcatgt cgtatatattg taaaaaaaag aacatttgca taatactccc 360
tccatttttt tatttgacgt tttgcagttc atttgtccat aagctggcgt caaataaaa 419

<210> 50411

<211> 280

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-D10

<400> 50411

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cggcaaaatg gtgcagcggc tcacctaccg gaagcgccac agctacgcca caaatccaa 120
tcagacccgc gtggtcaaga ccctggtgg gaggcttggtg taccagtaca ccaagaagcg 180
cgcgagcggg ccgaaatgcc cggtcaccgg gaagaagatc caaggaattc cacacctgag 240
acctgctgag tacaagaggt ccaggttggc aaggaaccgc 280

<210> 50412

<211> 223

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-D11

<400> 50412

cgtaaagcc caccagtaca accgcgacga gcccatcatc agcaacgcct cctgcaccac 60
caagtgcctc gcgccattcg tcaaggtgct cgaccaaag ttcggcatca tcaaggcac 120
catgaccacc accactcct acaccggcga ccagaggctg ctggacgcga gccaccgcga 180

cctgcgcgcg gccgcgcgcg tcgcgctcaa catcgtgccc acg

223

<210> 50413
<211> 276
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-D12

<400> 50413

ctctctttgg gctgtcagtg acagatcggt tgggtggatta agctttacta ccacagatgt 60
gggcaatgtc cttgcgatgt caggtctctt cctttttcta tatcaaagt tgatctatcc 120
gttccttgcc aaaacggtag accacatcac attagtcggt gcagtggcgt tattgactct 180
accggttctt gctagctacc cattctttcc ttcgttgctc gggttcgggc tcatggtggt 240
agtaaattgt gcattctttc tgaagaatac attctc 276

<210> 50414
<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-B7

<400> 50414

gaaattcata ctttcaatca gagccagtat cctcgcattg ttaccgagga cttcttgcca 60
cttccaagca aagggaatc tgggaaggat ggctggtatc ctccaggcca tggatgatgtg 120
ttcccctctt tgaataacag tggaaaactc gacatcttat tggctcaggg caaggagtat 180
gtcttcggtg ctaactcaga caacttgggt gctatagtcg acatcaagat cctgaaccat 240
ctgatcaata accagaatga atactgcatg gaggttactc caaaaacatt ggctgatgtt 300
aaaggcggta ctctcatctc ttacgaagga agagttccag cttttggaga ttgcccaagt 360
tcctgatgag catttgaatg agttt 385

<210> 50415
<211> 365
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-032-Q1-K1-D2

<400> 50415

caattaacta gcttcttcta gctctagcta ggctcgtctg ctgcaagaag gtaacagcgc 60
aggcatggag gggaaggagg aggacgtccg cctgggcgcc aacaagttct cggagcgcca 120
gcccacggc acggcggcgc agggcacgga cgacaaggac tacaaggagc ccccgccggc 180
gccgctcttc gagccccggg agtcaagtc ctggctcttc taccgcgccg gcatcgccga 240
gttcgtcgcc accttctctt tcctctacat ctccatcttc accgtcatgg gcgtctccaa 300
gtccacctnc aagtgcgcca ccgtcggcat ccagggcatc gnctggctct tcggcggcat 360
gatct 365

<210> 50416

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-H6

<400> 50416

atcaaataca agatcaccgt ttctggctga atatcatatc acagacactg cgcttcggga 60
tcaaccaacg ctgggcgcag ctgcgtatta gctactgatt ctccattctc tggaagccac 120
tatctaaaag cactggctaa agaagatcaa cctttgctcc aggtcgatga aactacatct 180
taaagtcaact gtctcccata acacccttta tgctcatttc atcagaacga tccactgtcg 240
ttcattatac actgaatgca ataaatcact cacgcatact atgaacatag ctctcctaata 300
atcgctgctc tatgctgata cctctgggtga catgctactc ttactaatgt tggcacttct 360
gaacaacgca ttctatttca agcccttaata gaaccagccg atatagatcg acaatcaaat 420
tcttaaaaca a 431

<210> 50417

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-H7

<400> 50417

cccacgcgtc cgccctgcgt tgcgtcttgg gggagagaga gaagtgggag acccgcgaga 60
 ggctgccgtg tagggactag ggaccgtaga gtaagcgaca gcgaaggagg gagaggggga 120
 tggccgggat cgggccgatc aggcaggact gggagccggt ggttgtgcgg aagaaggcac 180
 ccaccgtcgc tgccaagaag gatgagaagg cgtcaacgc cgcgcgccgc tccggcgcgg 240
 agatcgagac catgaagaag ttcaacgctg gtatgaacaa ggcggtcc agcggcacat 300
 ccctcaacac caagcgctc gacgacgaca cagagaacct cgcccatgag cgagttccaa 360
 gtgacctgaa gaaaaatctc atgc 384

<210> 50418
 <211> 435
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-H8

<400> 50418

tcttctttta acaacatccg aaactggatt cggaacattg aacaacacgc cgctgagagt 60
 gtcaacaaga ttttggttgg caacaaggcc gatatggacg aaagcaagag ggctgtacct 120
 actgcaaaag gacaagcact tgctgatgag tacgggatca agttttttga aacgagtgcg 180
 aagacaaacc tgaatgtgga gcaagtgttt ttctccatcg cacgtgacat caagcagagg 240
 cttgcggaga ctgattcaaa gccagaggac aaggcaatca aaattaacaa gccagaccag 300
 ggttccgagg caccagctgc ccagcgatct gcttgcgtgc gtcataagc agatgcacga 360
 tggccatagc ctttggttat ttgacattat ttatttcccg cttggctgtt ataggaaaga 420
 tttgaagaag ccact 435

<210> 50419
 <211> 138
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-A10

<400> 50419

cccacgcgtc cgcacactcg tacgcggacg agtagtcaga cgcgtagttc tccgtcctgt 60
 tcgggtccaa gaatacgcgg tggtcgaacc tagagaacct gctgctttgg ggatctgtgc 120

ggtagataga tgactact

138

<210> 50420

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-A11

<400> 50420

gcggacgcgt gggttgcggc tgtatgggcc tagtctgggc ctctcgtggt cggatctctc 60

gagctgcact gccttctgtc gtacttggct cgcgtcacct cataccgggg ccgactgtca 120

cgcctgtcca tccatggcgg tgcagctgct agactgctct gtccttgcg gacacctgct 180

ggtcggcctg accgacttct gctgtcgcga accactccat ggatgctcca gcgagccctt 240

gtctcatggc gacgcgccgt tgagactccc agccgcccc gctcggagtc ctggtgtcgc 300

gatcgcttcc agccggacgg aataaccagc gatgggagaa catactgacg gacacagatg 360

atgctatgaa cgaactgaga tgacagac 388

<210> 50421

<211> 266

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-032-Q1-K1-A12

<400> 50421

cgaacgtgaa gaagccgcgt gcgttatcct ttgagcagtt tgggcgctga gcaagtccag 60

tgagagaggg agagcggcga gaggatggct gggatggcat cgctgcaggg cgccatggcg 120

tcgctctcca tctccgcgct aggcgcggcg acggcgagca gcagcagctt ctggngcaac 180

cggctcgcca cctactccgc gccgcagcct ggggtaaggg ttatgggtcaa gatatgccca 240

attgaaatga gacttaagag atggga 266

<210> 50422

<211> 177

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-A2

<400> 50422

ctgagaccct cgctacccag ccattagcaa attcgcttat gctgtccaag acttatctta 60
cgttatgtct gtacgctttt gttattacaa gtactcaagt tttgagtctt tgagatgtgg 120
ctatgacaat gtgatgaaga accctaaacc atcgtattag agtgaaactt gtttcta 177

<210> 50423

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-A3

<400> 50423

gtggcgatgc cgccgagggc agtgccgtcg tcgtctccct tgcctattgc actcgccggc 60
gtggccatag tcgtcgtagc acttgccgtt tcctcctggt ccgtgaccac cgatgctcca 120
ggcctgggag tgggagccag agagatgggt gcacgggacg accccaagtg cgaggagatg 180
gtgccctgca ccttcaggcg ctgcatgcag tactgcgta gcacggggct gcagcccaag 240
gggttctgca actccaagcc caacatgcag gtctactgct gctgcgctcat cccttagcat 300
catagctcct cgtcaacaca cctaaatctg cagacctgct agagaagata cgatctc 357

<210> 50424

<211> 268

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-A4

<400> 50424

gccgcagttc gcgcttgtgg ggctcgccga ggcgttcggc gtcacgggg agatcgagtt 60
cgtgtacacc gagctgcccc agagcatggc cagcttcagc atgtcgctgc tgtacatggc 120
cttcggagtg ggcaacctgg cgggcgccct catcgtgaag gtgggtgcacg tggccaagcg 180
ggcaaggggt gggaacgggc tggctcgctg acaacttgaa cgtcggccgc tacgactatt 240
actacttgct gtcacgggc tacggcgt 268

<210> 50425

<211> 254

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-032-Q1-K1-A5

 <400> 50425

 tcgtcggcca cctacgtgcg ttcggcaaac gtacaaggag atggacgtcg gaggcgtcga 60
 cctagcccgc cggcgtgacg ctggagctgt cggggctggt gatccaccac gatccggaca 120
 tctggggagg cgcgcgagtt caggcctgac aggttctccg agggcgtgtc tagggcctgc 180
 aatgaccctt ggggcgttgc ttccgttcgg ttagggcccg tgcattctga tcggacagaa 240
 ctttgcgctg ttgg 254

<210> 50426
 <211> 332
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-032-Q1-K1-A6

 <400> 50426

 tcggtcctta gttccaggca cgacgtcacg cgtacggccg cagttcgcgc ttgtggggct 60
 cgccgaggct ttcggcgta tcggggagat cgagttctgg tacaccgagc tgccaagag 120
 catggccagc ttcagcatgt cgctgctgta catggccttc ggagtgggca acctggccgg 180
 cgccctcatc gtgaaggtgg tgcacgtggc gagcggtaaa tgcgtgggaa cggctctggct 240
 cgtcgacaac ttgaacgtca gccgctacga ctattactac tggctgctca cgggctacgg 300
 cgtggcgaac ttcgtgtact tcgctagggtg ct 332

<210> 50427
 <211> 343
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-032-Q1-K1-A7

 <400> 50427

 tgataataag gctccagcac cgatgccaaa acatgcacga gttggtcacg agtcagagcc 60
 ttttgttgct ggcttaactt tgttctttaa tgttgcaaag ataagataat gtaattactg 120
 gttatgtgat gttgcatatg atatgagaat atgaggattg gtgataaaaa aaatagtgcc 180

ctgaaccttc aggcgctgca tacagtactg cgtcagcatc cggctgcagc ccaaggggtt 240
 cttgaactcc aagcccaaca tgcagggtcta ctgctgctgc gtaatcccct agcatcataa 300
 cttctcgtca acacacctaa atctgcagtc ctgctagaga aga 343

<210> 50428
 <211> 242
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-032-Q1-K1-B12
 <400> 50428

cgggtccgtga atntaccggt gtcgacgcca cgtccgtccg tggcacggcg tgatggannt 60
 atctcactnc cctttgagaa ggtgtcgaac tnccaggctc atctttactc tcnnttcacc 120
 acgtgggttn gccagggagt agccgcctat tcaggaacca atcaaaacnt cattgggctg 180
 agtgcnnctt gcagaatgaa gtnntgatca acgctttgcc aaggggggctc gttcnncaac 240
 ag 242

<210> 50429
 <211> 119
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-032-Q1-K1-B2
 <400> 50429

gaacgaggat agcgcttggt ggcgtcgctc gaattgttcg gcgtcatcgg agagatcgag 60
 ttctgggaca cgggcggctg ctatgatcgt ggccagcttt cgtatgcgtg cactgtaca 119

<210> 50430
 <211> 424
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-032-Q1-K1-B3
 <400> 50430

acgcgtacgc gccacatgat attatgcggg atgctgctat ttcaacattg acaactgatt 60

gtgaacacga gcgctgctgt gccatgtaac ggctgctgtt gggatgcgtg tcacacggga 120
actattattc tataccacac agaatagaga cattgctagc gtccagatag gacctacgct 180
gacattattg ctgagctctc agcatatgct gattcatcat cacagacgat cagtcctttt 240
attgataccta tccatagttt gaatatgcct aactatgaac cccagcgggtg gtcatttttc 300
agaaatcttg caaaaaatga gtttccaaaa aaggatgagg cccaagatct ggcaaagatc 360
gaggaaggag tttatccctt agatcactta gagcatgata caactaatgt gaagaatttg 420
gatc 424

<210> 50431
<211> 395
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-031-Q1-K1-H4

<400> 50431
cccacgcgtc cgggtaatcc taatagctat ccctggcatg acggttcttg acatctgtgt 60
ttgcatcctt gccttcatgc cactggatg gggtttgctc ctgattgcc aagctatcag 120
gcctgtgatt caaaagatcg ggctgtgggg gtcgatcaag gctcttgccc ggggctacga 180
gatcctaattg gggcttctcc tggtcacgcc cattgctttc cttgcctggt tcccgttcgt 240
gtccgagttc cagaccagga tgctgttcaa ccaggccttc agcagaggtc tgcagatctc 300
ccgtatcctg ngaggacaca agaaagaccg aaggacgcgg aacaaggagt agtagggctg 360
ctgattgaag gtccgtctat cgggagttat gtcgt 395

<210> 50432
<211> 250
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-B5

<400> 50432
tcgaccaggt gcggctgctg gtttcgtcac aatcaagatg caacccttat cgccggcgac 60
gttggcaaca aaaaggata ttgatggcag acgtgtatct cttgggtgaa taatatatac 120
tgctagaatt aatatgggca ccaacaacga aatatctata atgttattct tcagtgtaat 180

gcttccagca tgttctgttt tagtataact aaatatctat ctttccccgc caaaaaacat 240
aaattgaata 250

<210> 50433
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-F9

<400> 50433

agaattcggg ctacctgacc tggagggccg tacccaaate tttaagatcc atacacgcgc 60
catgaactgc gagcgagata ttcgtttcga gcttctggca cggctctgcc ccaactctac 120
tggagcggat ataaggagcg tctgcacaga agccgggatg tatgccattc gtgcccgcag 180
gaaaacggtg acagagaagg attttctcga tgctgtcaat aagggtcatca agggctacca 240
gaaattcagt gcaacaccca agtatatggt gtacaactag agagtgtctt catggaatat 300
gttgatttta gaactcggg atcttttcgg tgattgtgtc atcgtgaggt tctatgcaag 360
gattgttgtt tgttttgaaa tctggatccc caaggattgc atcctgtacc acatgttttt 420

<210> 50434
<211> 395
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-G1

<400> 50434

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gtctcgcata agaattgaag gattacttgc tgcgttcccc aaactgggtg gaactgggaa 120
acagcacact tatgttgaaa ctgaaaatgt gcgttatggt tatcaaccta ttgaaggatt 180
atatcttcta cttatcacia acaagcagag caatattctt gaagatctgg acacattgag 240
gcttctctcc aagcttgtgc ctgaatactc cccttccttg gatgaggacg gtatttgtaa 300
aacagcattt gagattatat ttgcttttga tgaagccatc tctcttggga acaaagaaaa 360
tgtgacagtg caacaagtta aacaatattg tgaga 395

<210> 50435
 <211> 429
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-031-Q1-K1-G10

 <400> 50435

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 gggttcaacgt cgactggagt gccaacgaga tcgagatggg gagatctctc atcgcttgtc 120
 acggcgccag caacagcacg aacgacgaca ttgtggatga gctccaggca atgttcccag 180
 ggaaggataa gcgccaggta actgacttgt acgttgagct tgtgggtggag atgataaaca 240
 gtggggcaga gctgagcagc aaccagctcc tgctcaactc tgggtgggggtg cacagcagga 300
 cgatggatgg gtatttagca gacgagatga aggcgaagag gatgctgctg gaggaacagc 360
 gccgtaggaa attagttgct gttcctcgac aggataacca acaacgtgca aggaggtttt 420
 ggactctgg 429

<210> 50436
 <211> 354
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-031-Q1-K1-G12

 <400> 50436

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 cagagagcaa agatgtgtgg tgggtgcgac ctcgccgagc tcatcccgac cacgccggcg 120
 cgccgcggct gcgcggcggtg gcccgccggc aagtgcagc gccggaaggc gaacgacttc 180
 gaggccgcgt tccgggagtt cgacgaggac tccgaggagg aggaggagga cgaggggggtg 240
 gtggagagca agcccgccctt cgtcgaccgc gcctagtgcg cggtgacgca tcccatggcg 300
 ctccaggagc agcagatccg gcgccaggcg cacgaccagc agcagtacat gggc 354

<210> 50437
 <211> 347
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-031-Q1-K1-G3

<400> 50437

aaaaaaaaa aacatacaaa aaaaaataa taaaaactta aaacaaatat ataaaaaaag 60

ggcaggggct ctattagaat cggggctgat ttcacagtac atactgaatc ataaccctgtg 120

ctatcgaagg caccaaaatt caattaactg gacctcattt tacatcattg accactggga 180

aaacaccgtc gttactgaaa taaaactgct tgaaccaaat tcaagtttac taaaatggct 240

tactatztat caagctcgga tcttagcatt tatgcctaca atgctcacc ttgatggcaa 300

atgggcaacc cccatgagcg acgcattaaa ccccgtaggt gcccttt 347

<210> 50438

<211> 152

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-G4

<400> 50438

aatggattac gaaacatttc tatcttaaca atataacaca tgtttatata aaaaaagaa 60

aaggaaaaaa aaaagaaagg gaaaacaaaa aaaaaaaaaa aaaaaaaaaa aaaagaaagg 120

gcacaacaac taaaagaacc aaacttaaaa ag 152

<210> 50439

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-G5

<400> 50439

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gcagctttac aggatccact catacgcaat ccaacatgct acgctatact ttttgtatat 120

aatcacctat atactcttca ctgtccaaca agttcacacc tcatattacc tgtaaaactg 180

ttccgtaacc taattctacc ctcttactgc ataaccctct tttgccagat cctgcaaagt 240

acaatatcc cgcaccaatc ccacttccca acatttgtgc agtcctacat gccaatgaca 300

atctccatgc tcaacatcat taagtgcccg aaatctgtcc cttacatcca cccttacctg 360

ttcatttaga acaccattac cgccaccata ttcaactcca tggccttctt tc 412

<210> 50440
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-G7

<400> 50440

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tttgattatt tctttgggta atttggtgca acatatagag gtgaacaagc ttattaaagg 120
aagatccttg tacaatcaag agttcataca atagatgaaa cgatattgtg attctctcaa 180
tggtggcttc atgagcaagc aatcattcac cttgttcact aaaatttcag actgtagctc 240
agataaggct ttgagcattc cttgctacaa tgcttccgag agaagggaaa ccggcaaagg 300
ggaaaagaga cgaatagaag ggcattgggtg ccctctcaca cacaggccaa gtatacatcc 360
acatgccaca aggctgaagc ttccacatga acaagagaat ggatcgtgat agctattgca 420
agatgatgca c 431

<210> 50441
<211> 232
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-G8

<400> 50441

gtcgaccag cgttcgggta agttaaagca acttattgac tactattgaa ggttgatctc 60
gggagacggg gaattaatcc ggtgttgctt tcatgcttaa attggatctt atagtcttat 120
tccaacacct aacatgtctc ttgttcaatc ttcctctgta tcatattgta tgcatagatt 180
tttgatgggt cctgtgaaac cttggcataa tctatacaca tgaaataagg ga 232

<210> 50442
<211> 422
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-031-Q1-K1-G9

<400> 50442

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ggacggctac ccgccagcgg ggtacccgcc ggccggctac cccccgccgg cgcagggcta 120
ccctccgcag ggctacccgc cgcagtacgc gcagccgccg cctacacagc agcagcagag 180
cagcgggcct tccttcatgg agggatgctt ggctgccctc tgctgctgct gcctcctgga 240
cgcctgcttc tgagagtgag aggggccgac cgacggattc gacacggcga caagtgaaac 300
tactagcttt ctatgcgagg gagagagaga gagagctgga actggattga gcctggaatg 360
ctatcgtgct attctagctt tgtcagagca taatatgtcg ccctaggntt ttatttctct 420
ct 422

<210> 50443

<211> 298

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-H1

<400> 50443

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ggtacgcact cagcttcgaa catgtagtag caacttttag atctagagcc atgtgaaaaa 120
aggcaggttt gactttaacc cagatgttta gggatttttc gagcagcaaa ctgtgacagt 180
atgtatgcat tgacaattta aagctgaagt ctggaccggg ttccatgaaa aaaaagccca 240
aaagaaaaaa aaattccaaa caattgcaca gcccaaaagg caaatggga cgcaccat 298

<210> 50444

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-H10

<400> 50444

cggacgtatc taatcgcacc tgcttgtatg ggccgcaagt tcttcgtcgg tgaggagctg 60
ttttatgcgg tggaaccaca gatcatgtcg agaagattgt caaaaccctg aatgaacgac 120
acgtttcccc ttcagatgtc gtcgaggctg ttgtcagcca tgcttatgtc ttccttgctg 180

tgggtcaagaa ccatctgcac caatacttcc atgttgctgc tcacaactgc tgggtgaaga 240
atggaggcgc ttttactggt caagtcattg ctgatatgct cgttatcctt tgggtgttccc 300
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<210> 50445

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-H3

<400> 50445

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aagtacttca tcaggctcaa ctccggcggc aaggacaaga cgaggtccag catccacgac 180
atcaccacgg tcaacctgac ggacgaccag ccggcctcgc cgtcccagtc ctccctgatc 240
accagccagt cgaacgcacc agtccatct ccagctccgg ctccagccgc ggggatatgc 300
caggtcccat tggcgccga cgtcaaacga cacggtgccg gaactctgcc cttcagctca 360
ccgaaccgga cctctgcggt accggcctac aggatggagt ttcatgacca acaag 415

<210> 50446

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-F8

<400> 50446

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agcatatcat tgtaaaagat accaggagac agagagatcg tgatgctaata gaagctaaaa 180
atacaaaggc tgtggggaaa atatcattta ttgaccttgc tggaagtgaag cgtggtgctg 240
atactaccga taatgataga caaacaagga tcgaggggagc agagataaat aaaagtctgt 300
tagctctcaa ggaatgcatt cgagcacttg ataatgatca gatacacatt cttttcagag 360
gaagcaagct tactgaggta cttcgtgact catttggttg taactctagg acagtgatga 420

tttcttgca

429

<210> 50447

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-E5

<400> 50447

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tttgagttc ttctctgctc tgctccaagg cgggcgcagc gcaggagatc gaaggggaag 120
gatgatggcg gcgatgggcg gcgcggtgcg ggtgctgtgc ggcgcgaga aggagcgggt 180
ggtgggcacg cgcaaggcgc ccggggcggtg cccgcgctgc ggcgagaccg tggtagccgt 240
cgacgtggag agcgagcgcc gcttactcgg cctgccgctg tgctccaga gcaagcgcaa 300
gtactcctgc acccgctgcc tccgcgggt cgtcacctc tacagctgag agctcaagaa 360
cgagctacac tacgctacac atgcaccct cgtctcttc ttgccaagcg cccgtcggcc 420
cgcccgtaga cgatgac 437

<210> 50448

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-E6

<400> 50448

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gcctgccag gtggaaccag gctacggcgg gtacctcct ccccagctg cagggggcta 120
cgcgccgccc cctccgctg tgctgtgca ggagcctggc tacggcgggt accgtcctcc 180
atctgctggg ggctaccgga cggggtagcg gtacagcaac ctgctcgcgc ctctggcgctc 240
tgaacagacc gtccgcgtct actgcaaggc cggcgaaggg tacagcctca ccgtcaggaa 300
cggcaccgtg tgctggcgc caaccaacc caggagcag ttccagcact gggtagga 360
catgaggcac agcactagca tcaaggacga ggaagggtac ccagcggtcg cgctggtgaa 420
caaggtcacc ggcg 434

<210> 50449
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-E7

<400> 50449

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cgcgccggcg cctcgggctg tgctgtaca ggagcctggc tacggcagat accgtactcc 180
atctgctagg ggctaccggc cggggtagcg gtacagcaac ctgcctagcg ctctggcgctc 240
tgaacagacc gtccgcgtct actgcaaggc cccagaaggg tacagcctca ccgacaggaa 300
cggcacctg tgctgtgcg taaccaaccc cagggaacgag ttccagcact ggggaagga 360
catgatgcac agcactagcg tgaaggacta ggaaaggtag ccagcgttcg cgctggtgaa 420
c 421
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<210> 50450
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-E8

<400> 50450

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cggcgagct gcggtacatg atgagccatt attttggtac cccacctagc aagggttcgcg 180
ggatcgctcc cagaaacgtc cgagttgcag ttcccaattt ttttctcttt ctttccaaaa 240
tcattttctg aagaattctc cccaaatcct gttcacttct ttggttcggg gttgacgggg 300
ttctttgttg ctaacgaggc aggaggtgat ccaagatctg tactacgcct tgaggacaaa 360
gggaggtttg accccaagg aggaggagac gtcctggct tgcaatttac ttctggtgt 420
ttatttcacg gtggg 435
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<210> 50451

<211> 311
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-031-Q1-K1-E9

 <400> 50451

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 gggcgctcgtg ttcagcgccg ggagggtccct gagccacgtc acgtggtacg ggcgcggggc 180
 cttcgagtgc taccgggacc gcaaggcggc ggctcacgtc gacgtgtacg agaacagcgt 240
 ggaggagctg cacgtgccgt acattgtccc cgttgagtgc ggcggctctgg cagacgtcaa 300
 gtgggtggca c 311

<210> 50452
 <211> 439
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-031-Q1-K1-F1

 <400> 50452

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 ctacaagaag gtctacggcc gcgccgagcc cctccccaag tgggtccgacg ccgacgtcga 120
 cgagttcatc gactccgacc cgggtctacgg gccccagctc aaggccctgc gggagtcgag 180
 gaagtttgcg ctgcgccggg ccttcgcggg cgcggtccac ctcggcggcg tcgcgctcaa 240
 gtactccaaa gcgccgcacg gcgtcgtgct ggcgaccggg ttcggggcga tcacggggcg 300
 cgtgctgggg tccgaggtgg cggagcactg gtaccagctc tacaagatgg acaagcaggg 360
 ggccaacctt aggttcatct actggtggga ggacaaggtc tcaggacaga agagctgaac 420
 catgttgaat tgaatgatg 439

<210> 50453
 <211> 424
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-031-Q1-K1-F10

<400> 50453

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gatgggtctcg acacctgccc acgaggcaact tattctgacg acaacaaggc ctgcaggaag 120

cacaaggaag atagtgggtgc cagcttcagc tctgctcgct ccaaggactc aaactcaaag 180

gaaagcagca aaaggagccg aagaaaaaga gacagaagca tcacgaaagt ggactaagag 240

gatcccaaag ggtacataca tgtcacggcg atgagaggac aagctacgga caaccacagt 300

cttgcataga aagtgaagag ggagagaatc agtgagaaga tgaggggtgtt gcaagccctg 360

gtccctggct gtgataaggt cactggaaaa gccctcattt tggacgagat catcaattat 420

gtgc 424

<210> 50454

<211> 439

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-031-Q1-K1-F11

<400> 50454

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tttgcaattc ttctctgctc tgctccaagg cgggcgcagc gcaggagatc gaaggggaag 120

gatgatggcg gcgatgggag gcgcgggtgc ggtgctgtgc ggcgcgagc aggagcgggt 180

ggtgggcaag cgcaaggcgc ccggggcggtg cccgcgctgc ggcggggccc tggtggccgt 240

cgacgtggag agcgagcgcc gcttcctcgg cctgccgctg tgctccaga gcaagcgcaa 300

gtactcctgc acccgctgcc tccgncggct cgtcaccctc tacagctgag agtcaagaa 360

cgagctacac tacgctacac atgcaccctt cgatctcttc ttgccaagcg cccgncggcc 420

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<211> 442

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-031-Q1-K1-F12

<400> 50455

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ggccccagcg acggctccag cgcaggcgcg aggaagaagc tccaactcac caatgagcag 120

tcgacgtgcg tcgaggacac cttccgcgcc cacaacatac tctccaacgc gcagaagcag 180

gagctcgcac ggcaggtgga tctcagcgcc aggcaggtgg aagtgtggtt ccagaacaca 240

catgttcaga taacatgttt tgcatgaact accctctgta tctaacaaaa agaagttcaa 300

gtttgcagga aacaaccaca atcgaattgt tgcaagtgcg tcccacgac tgaagacaaa 360

aagatctgtt gtccattagc aacaaagtgc tacagaggct gtgttctgtg taccagtact 420

ngatagtgcg tttcagaatg aa 442

<210> 50456

<211> 436

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-031-Q1-K1-F2

<400> 50456

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anggtggacc aatacctgct gcagccaccc tctgtaccgt gagtctgagc ttatccagga 120

gaactacctt ggtgtgagaa atgcagcaca gaggaagcta ctggatgagc tgggcatccc 180

agcagaagat gccccagttg accaattcac ccctctgggc cgaatgcttt acaaggcacc 240

atctgacggg aaatgggggg agcatgagct tgactacctg ctgttcacgc tccgggacgt 300

gaagggtgcag ccgaaccag atgaagtcgc tgacgtgaag tacgtgaacc gcgacgagct 360

caaggagctc atccggaagg ctgacgctgg cgaagacggg gtgaagatct ccccctggtt 420

caagctggtg gtggac 436

<210> 50457

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-F3

<400> 50457

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gcacagcgaa cggggtcacc agtgccgcat cagggaaaac accggcctgg cttagctaca 180
tgccgttctg gccgaccatg tgatcggcta gcacacgcac accccaaact cttccaggtc 240
ctaaagaatc tccaagtatt gcatttgtga gacagatggc tacaaggaca ttgtaaatgt 300
atattttgga gtttgtaagc atcttgaatg gtgcacgtgc gatcctgcaa atcatctgtg 360
gcccattgta caaccacag attcagggaa aaaatatcga atgattatgt aatta 415

<210> 50458

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-F4

<400> 50458

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gtcagactct gcggcttcat tatataagga cgatcacgtc ccgcctagcc ggaagctgct 120
gaaaagtgcg aaccacagca agagctgagc tctggagcaa gattcttcaa tgctcataga 180
aaagttgtct tgtcgaggcc ctaacctgag caggggcaat ggcttgcatc tctgtgaaat 240
ttggtcttag tgtggtcgtg ctgcatttac cggaagagct tagaaaccat ggacacgcgt 300
gataagagat aattcttagg ccgtgatgtg tgcacgtgac atggcttgtc ccccgccatc 360
ttgcaaaatt gtttatgtca ggttgattgt atctatctac atacatgtta tggtatttc 419

<210> 50459

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-F5

<400> 50459

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catggccatc gtgttgacac cctgccctgt gcacggacga aatgatggta gctatacatg 120
tgcacatgc cactctaac catatttatt tagtttctaa aagattgtat gcattggata 180

ttggtattgt cattattgac tagttttttt tatttcaaaa aaaacttttg tgtagagagg 240
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 tatgccaaacc ctgtgataaa ctgctggaac acaccaccga atacagtttt ggacacatgc 360
 tgctgcttta gtaatgctgc tagaaaattg gcttgatttt atcactgaca gctctagctg 420
 ttggatcttg actg 434

<210> 50460
 <211> 436
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-F7

<400> 50460

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 tttctgatca gcgaacatgg gaaccgcgg cgtcgccttg ctgctcctcg cggcggtgct 180
 gctcctccag gcgtcctcc tcgcgtcgtc ggagggcctg gtgcgggtcg cgctgaagaa 240
 gctgcccgtc gaccagaacg gccgcgtcgc cgcgcgcctc tccgccgagg agaggcagcg 300
 cctcctcctc cgcggcgcca acgccctggg ctgaggcggc gacgacgact cgcacgtcat 360
 cgcgtcaag aactacatga acgcgcagta ctttggggag atcggcgtcg gctcgccgca 420
 gcagaagttc accgtc 436

<210> 50461
 <211> 406
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-E4

<400> 50461

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 ctccaacat tcgtcttcgg cgccacgtat tccctgatga gaaatattca aaactacacc 120
 tgtcacaaaa ggggaaaaac tatggttgga caataagatt catgaaaaac atatgtcgat 180
 ccaaattaag cgtacatctc ttttatcaag gaaccaaag taagtcgggtc aaatatatac 240

atataagtac taatatttat ggaatatata cttttacaat aaaattatta aagatatata 300
 atatagagct tgaaccatac aaaccctaac tgataatgag taaccataac atatgtatat 360
 gtactccatt cgttaccaac aataaggtgt cttacatatc aagtaa 406

<210> 50462
 <211> 375
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-C8

<400> 50462

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 ctcaagca tctatagcat cccttcttcc ccgctacctc tcaccagcgg cgtcttcggt 180
 atgtgaaaac ccaattcttc aaccctatac gatccaacag gcaatcagca gctggcatct 240
 tacctttatc acccttggtta ctgcaacaat catcagccct attacagcag gtacctttga 300
 tgcatttatt ggcacataac atcagggcac aacaactaca acaacttggt ctagcaaacc 360
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<210> 50463
 <211> 342
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-D10

<400> 50463

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 ctgcagtttt tttggaggct catcagctgt gatcagttag atgtgaaaat gtctcaccaa 180
 gaaccagtat acagtttgta ttagggaga gaagaaaatg ctcggtttgg ttttggtttt 240
 agagctttca gttttttttc ttttcttttc aatcctagtc tttgttgttt gaaggacagg 300
 tcctagattt gacatagcct ctttcatcg gttattcttt cc 342

<210> 50464
 <211> 411
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-031-Q1-K1-D11

<400> 50464

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 ggccgcgggtg gtggacgagg aggcgtgcat gtacgcgatg cagctggcgt cgctgtccat 180
 cctgccccatg acgctgaaga acgccatcga gctggggcctg ctggagggtgc tgcagaagga 240
 ggccggcgggc ggcaaggcgg cgctggcgcc cgaggagggtg gtggcgcgga tgcccgcggc 300
 gcccgcgac cccgccgcc cgccggccat ggtggaccgc atgctccgnc tgctcgccn 360
 ctacgacgtc gtccggtgcc agatggaaga ccgggaccgc cggtacgagc g 411

<210> 50465
 <211> 435
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-D12

<400> 50465

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 cgtgccgtcg ctgtgaacgg ccgccgagc tgttttggat cgagtaataa tattattagt 180
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 aaattaatct aagaaaacag agatatggtc tgttaattgc cggctctaac taatggccgg 360
 cgataatctg ttaagctacc tcagattgac catctctatt tcttattata aactcathtt 420
 cctcgtctat tattt 435

<210> 50466
 <211> 425
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-D3

<400> 50466

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acacgacagc aagaggatgc tccatgcggt ttaccgtggt ggggatctgg accgcacaat 180
caagtactac acggaatgct ttgggatgaa actgctgagg aaaagggatg ttcctgatga 240
gaagtacacc aatgccttcc ttggctttgg gccagagaac accaactttg cagttgaatt 300
gacatacaac tatggcggtg acaagtatga cattggaacg ggctttgggc atttcgcaat 360
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ccgcg 425

<210> 50467

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-D4

<400> 50467

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cagcgcaaga agcgcgactt cgtcaacggg gccgtcggcg cgttcgttgc cggagcctct 180
gtctgcggct acagaggaaa gagtattcag tcagccctca tcggaggctc ctgtctggct 240
ttcacatctg ctgtgctgga cattggcggc aatacgacca gagttgacaa cggcaaagag 300
tactatgcct acacaactga gaagaagcct gcaaattgat tccaagtctg cacttctagc 360
aaacaatctt gcacgccatc aactcagtga atttgaagct gatgtgcagt tttatgtttg 420
ttttgctgat gcaatta 437

<210> 50468

<211> 334

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-D6

<400> 50468

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taacaataaa acaacatgaa tggactattc acaatcaaac aaacacttaa atacacatcc 120
aacacaacca acataaattt atataaacca accatacaca accttccttc accaaccact 180
ctatatacaa ctacataact atcaccattc acaacaatcc tattaataaa ctcttatttc 240
actatcacat ctctgcaat tgccattctt accaatactc ctacacatta catcctcaac 300
atataactat gcatacaaat ctcataaata acct 334

<210> 50469

<211> 241

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-D8

<400> 50469

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tcttcttgaa cgctatgtct agcaagacga gtagtcttga cgtgtaatct tcagacacca 120
ttgacaacgt taaggccaag atccatgaca aggttggcat tccaccaaac caacagcagg 180
tgatcatctt cggctagcag ctagatgaaa gtcgcaactt ttctgactac aacatccata 240
a 241

<210> 50470

<211> 68

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-E1

<400> 50470

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caaaactc 68

<210> 50471

<211> 84

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-E10

<400> 50471

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agaacaaatt ctagtcttat gatc 84

<210> 50472

<211> 315

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-031-Q1-K1-E12

<400> 50472

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gctgttcgag gccaacctgc gcggcccgtc cggcgctgc ttctggaagg ggcagatcgc 180

cggcagcggc tacggcgtgg cgcagttcct gctgtacgcg tnctacgcgc tggggctgtg 240

gtacgcggcg tggctggtga agcacggcgt gtccgacttc tcgcgcacca tccgcgtgtt 300

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<210> 50473

<211> 370

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-031-Q1-K1-E2

<400> 50473

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ccaccgncag ccgtcgaggc ctgcaccgnc ctctaatac cgnccaggcg tccacctctg 180

actgccgccc acctncagcc gtcgaggctt ctggtggaaa ctcgtttgct aagatggaaa 240

gaggcaatga ctactatggt gntaggaaaa gtgatgtggt ggcaagttac aaaactctaa 300

gtgattgcc aagtcagatt tgctcttcgg tatctgggcc tgctgcaagt gcctacaagg 360
gtcactcttg 370

<210> 50474
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-E3

<400> 50474

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taagagcggg gcccaatctc gacatggagt gcatcattcg cctgctctcc aataaacaga 180
agaagaagta cgacgtggac aagatccggc ggctcggcag cgtcctctgc aatccacatc 240
cgggtgatgac gtaaaatggg gtgtggcagt agtttctgat ggagtgcac gcgtcaacaa 300
tatggagctt gaaccataca aaccctactg ataatgtgtc accatttcat atgtatatgt 360
actccattca ttaacaaaaa aaagtgtctt atatatc 397

<210> 50475
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-C7

<400> 50475

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ccgaaggaga tgagagctgt aacatcctgg gaagacgttt agaacctggt ctgggcagat 180
ctcaaccgat accaggactc tgcagttcgc tcagcataac ttaacaccag caagttcacc 240
acaaaaaac tttctgaaca tacgattatg ttgctgttcc tcccacaaat gtaacttaca 300
aatctaaaaa agaactgtaa gtaaaataac gaaggctcga cacggcatgc ccgtattttc 360
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<210> 50476

<211> 414
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-031-Q1-K1-B2

 <400> 50476

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 ctttgcaacc cgtgctacaa gctttgctga caagagcttc tactcagcaa cccagagag 180
 gcatccattc aatccttgcg agaggcagtt tgtgtatggc gctgaagtca ttcttctcca 240
 tgatgacctc agcgtcttac acgatgcaac ctgcccattg accttattac ggtaatggct 300
 acccagttca gtaccaggtc tcgtatatcc actaatggag acagccaggc gcagggtgctc 360
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<210> 50477
 <211> 90
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-031-Q1-K1-B3

 <400> 50477

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 cccgaacctc gctagcgttc aacctcttta 90

<210> 50478
 <211> 294
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-031-Q1-K1-B4

 <400> 50478

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 tgagcatacc atacttcacc aacaaagact caattcaatt gccgcactga cccatctaca 180
 ttaactggtg tctcacactg gattacaata ccatattctc ttcattgctg agctacctct 240

atagatgcga ttaaaccatt tcccattata gcatcatcat tacatactat caaa 294

<210> 50479

<211> 433

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-031-Q1-K1-B6

<400> 50479

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accctccgca tggctaccgg ccgcagtacg cgcagccgcc gcctccacag cagcagcaga 180

gcagcggggc ttccttcacg gagggatgct tggctgccct ctgctgctgc tgccctnctgg 240

acgcctgctt ctgagagtga gaggggcccga cgcacggatt cgacacggcg acaagtgaag 300

ctactagctt tctatgcgag ggagagagag agagagctgg aactggattg agcctggaat 360

gctatcgtgc tattctagct ttgtcagagc ataatatgtc gccctagttt tttattttctc 420

tctgtcaatg ttg 433

<210> 50480

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-B7

<400> 50480

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atggcgattg catacatggg agatgatttc atgtatcaat tatttggaag gtacagagac 180

atggccttgg ctgtgaaaaa tccatgccat ctcaatatgg ctgcatgcct gatcaaacta 240

aagagattcg atgaagctat tgcgcagtgt agcattgctt tgacagaaga tgaaagtaat 300

gtcaaagcgc tagtcacgcg aggaaaagct aaatctgaac ttggccagac agaatacagc 360

aggaagatt tctcaaagc gaagaagtac tccccagaag acaaggagat cat 413

<210> 50481
 <211> 306
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-031-Q1-K1-B8

 <400> 50481

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 aaatttggtg tcgaacggct gaacagttgt cctaattgta tgctataaac agagcttatt 180
 tcccccggtg ccatcgctgt atgattgcag tattttttct ctgcctaaat tttatagaca 240
 tattttacaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaagg 300
 gagaac 306

<210> 50482
 <211> 432
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-031-Q1-K1-C10

 <400> 50482

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 ctacggcaaa gactacggcc gcctcgctgt catcgctgat gtggtcgacc agaacagggc 180
 acttgtggac gcccctgata tggtcagggt ccagattaac ttcaaacggc tctcacttac 240
 tgacatcaag attgacatca aacgcgttcc caagaagtca accctgatca aggctatgga 300
 ggaagctgat gtgaagacga agtgggaaaa cagctcatgg ggcaagaagc tgattgttca 360
 aaagaggagg gctgcgctca gtgactctga caggttcaag gtcctgctgg caaggatcaa 420
 gaagggtggt gc 432

<210> 50483
 <211> 436
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-031-Q1-K1-C11

<400> 50483

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ggcatggtat tgttgatgta cgattcattc gttggaaaac ctggacgtga gtgctggaat 180

tgcaccatct ggctttttct gtacatgcct gatgtaacgg tgggtgttggtg tttccccacc 240

accacctctc ttttcacgat gatgacgcag tgcattgtata attgtatggg ttaatgacgc 300

agtgcattgcc ttgcgggagtg ggccgggtaga caaacatttc ggccggctggt cacttggtca 360

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aaaaaaaaa gggcgg 436

<210> 50484

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-C12

<400> 50484

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agactatcca catgcttttcg ttttgattct atcacgaacc agcaggatgc tcaaagtgcg 180

ataaatgact tgaatgggaa gtgacttcgg aaccactgaa ttcactgcaa ttgtgcaacg 240

aaaggtgcta atgctgggtca agagaaacag attctgtaca ctaatgttga cctgtccaat 300

ggctcatgag aatctggaca agagaatata catgaagatg gatctgaaaa t 351

<210> 50485

<211> 432

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-031-Q1-K1-C2

<400> 50485

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cccgcgatgt gctactgtat attacacgaa gacaacgtct tgggagctat attcagcctg 120
 gggaaagaga tgagggctgc aacgtcctgn gaggacgttg agaacctggt ctggggagag 180
 ctgaaccggt accaggactc tgcagttcgc tcagcataac taaacaccag caaaaaaaaa 240
 aaaaaaaact ttctgaacat acgtgtatgt tgttgttcct ccgacgaatg taacttccaa 300
 atataaaaaa aaagtgtagg gaaaataacg aaagctcgac acggcatgcc cgtattttcc 360
 tatggctggt gataatattg agatccctga aatggttcta tgaaatgaac cgcagaccgt 420
 tgaaatcggt tc 432

<210> 50486
 <211> 411
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-C3

<400> 50486

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 cactactctg gatatgcagg attctgaggg gtgtactaag tataccctaa caagggtaaa 180
 ttggacggat tcggttgcag gccaccaca cttgtatggg cctggagagg tatctgcgag 240
 cttgatcagg gagctgagga agtcgaacat gacacactct tacatgttcg cccgcaagtt 300
 ttctcctgag tgccttgagc ctttgatgga gattgcagac tcagtcatcc tacgtgacta 360
 gtctgaagca gacaccattt gacggtcgga gtttgtacac tgaaatgaat g 411

<210> 50487
 <211> 212
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-C5

<400> 50487

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 gagggaaggg tcccaggaag cagcttgcca ccaaggctgc ccgtaagtct gccccacca 120
 ctggtggagt gaagaagcct caccgctacc gccctggaac tgttgccctc cgtgagatcc 180

gcaagtatca gaagagcact gagctgctga tc

212

<210> 50488
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-C6

<400> 50488

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acccttgagc tgatgccct cagccatgtc cttgccacca agcttgggtgc tcgtctcacg 180
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tctaccagc acgacgagac agtcaccaac gacgagattg ctgctgacct gaaggagcac 360
gtcatcaagc cagtcattcc cgagcagtac ctgcacgaga agacaatctt ccacctcaac 420
ccgtctg 427

<210> 50489
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-B11

<400> 50489

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catccaggag atgttcgggc gcgtgagcga gcagttcacc gtcattgtcc gcaggaaggc 180
cttcttgac tggtacacgg tggaggcat ggacgagatg gagttcaccg aggccgagag 240
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gggagagtac gatgacgagg aggagggaga tctccaggac tagaataggc tgcttcacat 360
tcagtcaccg ccagtctatg aaaaactaat catttgctgc ttttcgtcgt cgtcgtagta 420
gtagtaggtc 430

<210> 50490
<211> 241
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-H2

<400> 50490

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cattacaagg gacctgttga gaactctgac ctaccttatt tgtccctgtg gaacatggtg 180
ctgtcatgat cgatattttt gtatggccag ctcgtgggat tatacatgaa gcatgcctgt 240
t 241

<210> 50491
<211> 249
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-H4

<400> 50491

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aattgacttt tgaggaccat tgtgccctgt tgaacttatg tcttaccttc tgaagtccga 120
tgtgtctggt atctacctga ccgtgcatct atctgatgct ggtcttttaa tagaaaagca 180
agcttccggt gaaatttatt gtcaatgatg gcttacgtat aaaggttaaa aaaacggcgg 240
ccttttttac 249

<210> 50492
<211> 287
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-H5

<400> 50492

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tgaagctctg ctacatgtct taccggatgg aatccactaa cgtgtctatg ccaacgatat 180
tcaggactat attctatggc taacaaggtt tttcatctag atcatgggat tgtcatcaac 240
atcctcatca atgccaatcg tccaggttac catgtctaca atgctac 287

<210> 50493
<211> 333
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-H6

<400> 50493

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tccgaggctt gatgctaact ctcaagtact tctttgatag aaatgtcaca attaactatc 180
cgtttgagaa gggtcctctc agcccccgct tccgtggtga gcacactctc agacgttatg 240
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caattactat cgatgctgca aaacgtgaat atg 333

<210> 50494
<211> 327
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-H7

<400> 50494

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ctgtgttcta ttctgtcatg aagagtgcат tactggctgc acaatctagt aatgatactc 180
ttttgaagac aactgctgat gcacttggca agtggaaagga tcttttgсgc aattacacca 240
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<210> 50495
<211> 364
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-H8

<400> 50495

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tcaacttcga cgccttccac ggcgacaagg accacggcgg cgtgcgcgac ggcaccaaca   180
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tgtgctgttc tgtggctgca ctggatcatc ccatgatctg gagctttgaa ggcataagcca   300
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<210> 50496

<211> 344

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-H9

<400> 50496

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caccaccgga gaagcaaaca ggctgtaaag gaaccttaat cagttagatc acgaggtcaa   180
ccaatgtgat tgggacaaat tttttcgtac cttttggtac ctctggcaga ttagtccatc   240
atagcgagct ctttgtttgt tgatggtttc tttgctgtgt aacaatgtat cggttttattc   300
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<210> 50497

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-A10

<400> 50497

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 agccagcgtg aggctgcact gaacaagttc cggctaaaga agaaagatag gtgctttgag 240
 aagaaggttc gataccagag cgggaaatta ctctcagagc agcgttcacg ggtcaagggc 300
 cagtttgttc gtcaagatca tagcatccaa tgaagctaag gtccagttac tgagctggaa 360
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<210> 50498
 <211> 418
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-A12

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 gtcgactccg gggacgccgc gccagcgtt cccaagtacc gcggcctgct cggaactgcc 180
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 tacgtcggca aagaccacgt tggggatgtc cttttgtcca agaagatagc cggcggcttc 360
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<210> 50499
 <211> 425
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-A2

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 aatggtgcgt gtgcaagcag gacgcgttgc aggccgcgct tcagaagacc atcgactacg 240

cgtgcggatc cagggcggac tgcaacttca tccatgagac cggagcgtgc tacaacccca 300
acaccgtacc tgcgcactga tgctgtgccg tcaacagcta ctaccagaac aacaaggcca 360
aaggcgccac ctgcgacttc gacggcaccg acaccctgac caccagcgac ccgagctctt 420
cgggc 425

<210> 50500
<211> 343
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-A3

<400> 50500

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atcccaccaa tccaccagat gctatccaag aaaggactct atacaaccaa actccgactt 180
cgagctacat cgatccatag atggtcccg actcgaatac cacgcttgct atccatgacg 240
acgaacccat cgtctcctat gtagatcgat cgatggccac agacacataa tcaccgacgc 300
cgacgacggt gacgactctt gtgatccgca actaggtata acc 343

<210> 50501
<211> 321
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-A4

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tgctgtaat aagaacaagc aagcgatgtg tgcctgtgat gtaccggtgt cgtcagtgtt 240
ataagtactt gggtcacaaa aaaaaaaaaa aaagttaaaa ataaacacaaa aactgataaa 300
taaataaaaa aaaagggcgg c 321

<210> 50502

<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-A5

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gaagggtgctc caagatttca gggccatggt ctcgcaaaag agctgggtga gaaagggtga 180
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atggttgcac ttgctgctca aaggcatgct gtgccttttg ttgtgggttc tggtagtcac 360
aagctgtgtc cgttgtatcc acacaatcca aaaagtgttg tgaatgaac 409

<210> 50503
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-A8

<400> 50503

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gaaaccctag cgaggcgagc gagagagaaa ctagcggcca tggtcggcta caggaaggct 120
gaccgcgacc tcgaggccgc cgggtcctcg ctgctgtacc cgggaatgac ggagagcccc 180
gagctgcggt gggcgttcgt ccgcaagatc tacgtcatcc tagccgtcca gctcgccatg 240
acggccgcgc tctccgcctt cgtcgtcaag gtgcccgcgc tctccaactt ctctgtctcc 300
tccaacgcgc gggtcgcact ctacatcttc ctcatcatcc tgcttttctt cgtgctgtgc 360
cctctgcgct actaccacca gaagcatccg gtcaatctgc tgctgctcgc cctcttcacc 420
gtcgccatca gctt 434

<210> 50504
<211> 382
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-A9

<400> 50504

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gaggggaacg gcggcagtcg cgccgaggct ggcgtccgag agtactgcga gccctctccg 120
aagcgcttct cgatccccgc catgccgcac gaagaatgag ttgagggcat ccagtatgag 180
ctcaaacatg ccacgggtgag gttcctgcag gagctgatgg agagtgcagg atgcttggtg 240
cggccgcgccc ttatactggc ggcgacctgc tcctacgtcg gctgctaccc tagccatcga 300
gggatacaag ttcgctgcca tcacatgacc tgtctagatg agattgctca tgtcatgatg 360
catgaactgg ttcattgctta tc 382

<210> 50505

<211> 329

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-B10

<400> 50505

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tatttgaggg attgacaatt atcaatgaca acaaattctc tatatataaa gtaacatttt 120
catacactta ctaattaata tataactata ctttatatca ataaaaaac acttctaata 180
aatacacata taccataaaa aatactacct aaaactgaca caacaagaat caattactaa 240
ctatataaaa atagcattca taaaggacac tatcaacatt tttctaaaca atggatccta 300
cgctaacttt gaaaaaatgc aaataccaa 329

<210> 50506

<211> 365

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-H12

<400> 50506

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agattggcgg atggaatgct accataattt caaaggatga attgagcact cagccttcta 120

ttgtatgcga gatcgagcca tctcttctgc gctcatgtga ggagcgggtg aaggatgtcc 180
aagggagggg cgaagtgtg tctgtctcca cgcacgtaga aagtggccca tctgtggaac 240
aacacaacag tgtggaagtg ccacacgcgg ctctgtaaa ggaacctgat gctgttgctc 300
agataagtga gaccatgcag aaacagagca tttctactga aagccagggc aatgcacaag 360
gcaag 365

<210> 50507
<211> 392
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-030-Q1-K1-F2

<400> 50507

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cttcagctgg ccggggccacc accagccgca gcagctcccg tcgcccgcgg gagcgtcggc 180
gctcttgccg cccggcccgg gcgcgttcca cccgtctctc gcgcgcccga tgccgtcggt 240
cccaggcggc aaggacgagg gccacatgtt ccacctnccg ccagcggcgc accacgggac 300
taacaagcag ctgcgtgagc acatggacga gcacaaccac caccagcagc acccgatggg 360
gggggcccgc ggcgactcgc ccgacggcga cc 392

<210> 50508
<211> 373
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-030-Q1-K1-F6

<400> 50508

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atgtgcaagg ataagatgac tatcgggacg aggtatgtgg agctgttccc gtctacccca 120
gaggaggcga gcagggcgag aacccgaggc aggcattgaa gaaacgaatg gcttggtgta 180
atgatctctg gttgcatgtg gctgcaatcg actgtagttt tcacttcgca tgcttatctg 240

tatcgctttt agattgtgtt agttgtgtgt atttgacttc ttatatgcga actgaactgt 300
aacaactntc ctttgttggc cggccgcaca tgtacggcat aatcatttat ggattttgct 360
acgtttgagt ttc 373

<210> 50509
<211> 337
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-F7

<400> 50509

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gggaagctta ttgcaaacct gattgtcatg ggctctacga ttataggaag agctatgctt 120
caggcatatc gtaaagcact tgataatgca aataaaactg gtgtggccca tgaggcaata 180
aacaatattc gtagagcaag caaaacaatg accgaacagg aagcgaggca gatactgggt 240
gtctcagaga attcgacgtg tgtagagatc gtacagcgat actataacta gtttgaaaag 300
aaacggctat ctgggatctt ctacctacaa tcgaaag 337

<210> 50510
<211> 297
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-F8

<400> 50510

gagaacctgt atcctcttgt tgaacatctg gaacgtgagc aggctgcca ggtcactggc 60
atgcttttgg agatggatca gacggagggt cttcacctgc tggagtcgcc agatgctctg 120
aaagccaagg ttgctgaagc catggagggt ctcgcgtctg cccagcatct ccagcagagc 180
aatgtttcta ctgagcagca gctggcta atctcattga atgatggcgt cgtcttcagc 240
tgaacgttaa tgtttctgat gtttcggaag tgctgccagt ttttgcttga atactac 297

<210> 50511
<211> 387
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-G10

<400> 50511

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gattctttgg atttgcagtg gcagccaatc tgatgaggga cctcttgcca ccaaagtacg 120
gcaaatgggt tccattacca atggcaatgg gggttccctt cctagttggg gcgagctttg 180
ccatcgacat gtgtgtgggg agcttgatgg tcttcatctg gcacatcatt gacagaagta 240
aagcatcttt aatggtgcca gcagttgcat ctgggttgat atgtggcgat gggcttttga 300
tcttccctga atccttgctt gccttgcca agatcagtc accattgtgc atggcattca 360
ggtcttcaca ctagagtaac aaaatgc 387

<210> 50512

<211> 377

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-030-Q1-K1-G11

<400> 50512

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gcctgtacag ccagcaaatt tgcttacagt cctcaaagct gtgacaaact tgtttggcaa 120
ctcatgcttg caccagtggc tgaggacca ctgtgctgag atcattgatt cggtgtcaaa 180
ctgcaagtct tcttttagca agaatgcaca cttggcatat gccacgcttc tactgaacta 240
cgctgttctt tcgattgaat caaaggagga acagagtcag gcgcagattc tttctgccgc 300
ccttgaaatc gccgaagatg acaccaaga tttcgactca aagtaccggg cacttgtcgc 360
aatcggnctc cttatgc 377

<210> 50513

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-G12

<400> 50513

gttcaagaag gttgccaatt tccttgctcg gttcaagtcc atccccagca tagttgagct 60

tgacagcttg aaggtgtctg gtgatgtctg gtttggctct ggaattacac tcaagggcaa 120
 ggtgacaatt atcgccaagc ctggagtga gttggagatt ccagatggag acgtacttga 180
 gaacaaggat gtcaatggcc ctgaggatct ttaagcaatg tttgtcatca ccagtttttc 240
 ccaaggacat gtcacaggaa ctgccgagcc taatcactcc tactgagctc tatatttttg 300
 taattttcat gtgcattccg attccgctgc gaggggtcatg tgagcccgt agagaataat 360
 tggaatcttc ttt 373

<210> 50514
 <211> 300
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-G2

<400> 50514

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 gggcgatcta cggtggaact ggagtgttcg cgatggcgag aggcgtcata aggagaacgt 120
 ttcttgccga cagcagcggc gggaactccg acgagcttgc cgtggagggt ctctgcccgg 180
 tgttccgcc ggcggcgttt ggctcatcgt cgtcacagcc agcagcaaag gacatcagct 240
 ccaccgtcgt cgtcaccaag gtcggagtgt ggggtggaga gggagggtcg gcgcatgaca 300

<210> 50515
 <211> 446
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-030-Q1-K1-G3

<400> 50515

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 gcgtcgagaa gatgctcgcc gtgctcgaca ccaacatcct ctgggtgaac cctgactgtg 120
 gtctcaagac acgcaagtac acggagggtca agccccccct gaccaacatg gtctcggcca 180
 ccaagctcat ccgcacccag cttgccagcg cgaaatgaag tcgtttgata gctccatggc 240
 ctgatagcgc ggaatgagcc agttgttttg aataatttgg gtgttacctt ctgttccatg 300

gtgttagtgt taggttagcc tctcattggt gagatacgcc gtttcaagat gtgttctaag 360
 tttggagtgt gtgttntcct ttgggctatg tttctggggg tatgtgtgtg ctttggttat 420
 taacaggaat gaaatatgca gtcttc 446

<210> 50516
 <211> 148
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-G5

<400> 50516

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 tacactattg tgactgttgt caattcgcaa ctatttggtg acatcaatgt tcttaagtct 120
 gtgccaattc aggtgactga cgatgtaa 148

<210> 50517
 <211> 153
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-G6

<400> 50517

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 aaataaaaa aaaaaaaaag aaaaaaaata aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaa aaaaaaaaaa aaaaaaaagg taa 153

<210> 50518
 <211> 353
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-G7

<400> 50518

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 cggcttcac cagagggcgt tcttgggcag cgtcagcaac cactgcgcgc agaactgcaa 120
 atgcccggtc ctcatgtca agaggcccaa ggagtagaag gttcctcgca tgtaacgctg 180

cagcttagcc aataatgttt catggcgacc atataggeat atatgtacac acttcacatc 240
ccattgcatg gcagtgtctt ccctagttca acaactaact ttctgcttga ataaagtgtt 300
caaagtttag acagaatatg tactgtacat actatcttct tgcatttggt act 353

<210> 50519
<211> 401
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-G8

<400> 50519

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gtctcccccg ccgcccggca gtggttcgcc gccgtgcgc ccgtggccgc cgccgccgcc 120
gccttctact gagagaaggg agatctgcac tgccccgtgc tgtaatttat ttgttatccg 180
tgttgagccg ttgattcctt ctttgttttt cttttcacca ttttttttct tccatccgaa 240
tatccatatt ccattcggca ttcgattcag taggactggc ggcattctgtt cgttcgtgtt 300
gctacagtgt aggaccgtgg ctccgacaga ttggttgggc tggctcgggtg gtgttgtgct 360
ccggtcatcc atttgtataa taccctgttg agtctctttc g 401

<210> 50520
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-G9

<400> 50520

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aaggagcaag cggagaggag ggagacggcg aagcaaagt tggagttggg tcaaaaggcg 120
tacgggaaag gaatgtatgg acgatcaatt gaattcttgg aggctgcgct cactatcata 180
cgtccctcct ctctactcgg tggcgagatc caaatttggc ttgcaatggc atatgaagcc 240
aataggaggc acaaggattg cattgcattg tacaagagt tggagagtag ccaccccatg 300
atcaacatca ggcgccaggc agctgagctt agatacattt tagaggcacc caagttgaag 360
atatcaaatg acgaggtggt cacaatacca caaattggga gcagcttgga ttggtatgct 420

tgaacatgga gtagacaaa

439

<210> 50521

<211> 354

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-H1

<400> 50521

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tggagtgaag cagatgatgt gctgctgcaa caagatggat gcaaccactc ccaaatactc 120
caaggcacgt tatgaagaga ttgtgaagga agtctcatcc tacctcaaga aagttgggta 180
caaccctgat aagattgcct ttgttcccat ttctggtttt gaggggtgaca acatgattga 240
gaggtccacc aaccttgact ggtacaaaag cccaaccctg cttgaggctc ttgaccagat 300
caccgagccc aagaggcctt caaacaagcc cctgcgtctg cccctccaag atgt 354

<210> 50522

<211> 368

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-H10

<400> 50522

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ttgcgtcgtc aagctttgga tttatttggt aacaggatag cttcacaccc tgaactcaag 120
caaagtgatg tcttgaggac atttttgcag gcagatgaag agataatgga tagggcaaga 180
tcttatgaga ccggtatatt taagaaacca tcagattttt tacagatggt taaggacgta 240
cagtcaaaag tcagtgatgt tgttctggga aaagaaaagc ccgtggagga atctactcct 300
gaatatgaga agcttaaaag ttacatatatt gagctagaaa ttcatttagc agaggcccaa 360
aaacaagc 368

<210> 50523

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-F12

<400> 50523

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ttattgtcaa tgctgggtccg ggtttccggc tactatggaa cactgtgaag tcctttcttg 180
atcccaaaac taccgccaaag atacatgttc ttgggaacaa ataccaaagt aagctgcttg 240
aaataattga cgccagtga tggccggaat tccttggtgg cacttgtacc tgtcctgaat 300
acggaggctg ccttaaggct gaaaaggac catggaagga cccaaacata cttagatag 360
t 361

<210> 50524

<211> 229

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-D2

<400> 50524

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ggtgatatcg gttactaact gtagaatata cgtctgttga gatgtcctag tatgactggc 120
ttcggcgggc agctgatttg tgttttgctt tttgttactt attgccaaat ttatagaggt 180
tgatttgagg tgccaacaat ttatagtaaa aaaaaaacca ctgatacat 229

<210> 50525

<211> 246

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-D3

<400> 50525

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cttcctttac aatagacgag gaaattttca actcccgat gtgattagaa ttgcatctga 120
tgtgtccaag ggaatgaatt acttgcatca gattaatatt gttcataggg atttgaagtc 180
tgcaaatctt cttatggatg atcaggttgt caaggttgca gactttgggg ttccagggtt 240

aaagac

246

<210> 50526
<211> 393
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-D5

<400> 50526

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atgtcatcgc agacataagc catttcacgc aggagcttat tgtcgttaat ggggcgaaag 120
cattcgtggt cgccaataac tttcccggtg ggtgtctggc atcataccta agtaggttcc 180
acagtgacga ccatgaggac tacgatgagc atgggtgcct taagtcgttc aatgagttct 240
cccaaaagca taatgagcaa ctttattctg ccatcggaca aatcagatac tcttacccaa 300
atgtgaaggc aatctatgct gactactaca actccaccat ggaattcatc aagaagccta 360
gtagatctgg tattggtgac ccttagtag cat 393

<210> 50527
<211> 364
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-D6

<400> 50527

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ttccgcctgt accgcttctg ggagacgccc cgcgaggagt tcctccgcgc gcacgcgggc 180
gccgtgcgcg ccgtcgtcgg caacgccagc tacgggcgcg acgccgcgct catcgacgcg 240
ctcccggcgc tcgagatcgt tgcctccttc tccgtcggca tcgaccgcgt ctacctcgcc 300
aagtgccgcg accgcgggat ccgggtcacc aacacccccg acgtcctcac cgacgacgct 360
gccg 364

<210> 50528
<211> 176
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-D9

<400> 50528

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gcgccgcggc agcaactgct cgccgattgc ggctgctggc ctggccctac tacattcttc 120
tcgtagccgg gtgcttccac tggatgggaa cgggggggttg tcacactggc tttttc 176

<210> 50529

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-E2

<400> 50529

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aggcgggttcc aaggcatgga gaggagtgcga gaacccacc gaagatgacc tcaagttctt 120
ctacgacggg caaggcttca tgtccctcca gctagaccgt aaccaaacca agttcacctt 180
ttacgatgtc gacgggaagg cgctgtacag ttacacacgg tcgagcctga tggaacaggc 240
cacaacttcc aagcttccgg ttacgtcaac gaggaatgaa gcaggggcga gtcaacatgc 300
accgcttggg aactgagatc gaatcagttc aagcgtacgt attaaatctc gagtgccttg 360
tgtggttcat ctgtcaaggg cacattttta aagtagtggt tgtatctttt gtgttgaaat 420
gtacaatgca ttgggagctt aaaaaatggg tgatgaat 458

<210> 50530

<211> 86

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-E3

<400> 50530

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gggtcaatcc aaacctggg ggggca 86

<210> 50531

<211> 132
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-030-Q1-K1-E4
 <400> 50531
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 gggggtaaat tcaaaacttg ggggcgcatt ctataccaca ccttacaata cccattata 120
 taataccact at 132

<210> 50532
 <211> 384
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-030-Q1-K1-E5
 <400> 50532
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 caactgattg gaatgcagtg gtttcgtcgg tatcgggggg tcttttaggc ttcagaaatt 360
 ctgtctgggt taggctatct gttt 384

<210> 50533
 <211> 455
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-030-Q1-K1-E7
 <400> 50533
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 caatacgcaa ggacaacttt gttctccact atgagatggg agagaaaagg ccagttctgc 180

cttcaacatc accaaacctt agatgaaaag aaaatctagg acggggagag gaacatagaa 240
 acatataacg atctgcagga aggactaagg aggcaggaag tcgcagaaca gaattgggga 300
 tgtccaatta acacccttg taattactaa aactgtgagc gaatgttgcg tttttcttgc 360
 actccccct tcgccctcct aattaaactg cctaattgtc aggattagtt tttctccagc 420
 tttaaaataa caacgcatag attgttttga ttgtc 455

<210> 50534
 <211> 57
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-D1

<400> 50534

aataaattat caaaaaaaaa aaaaaattat atattaaaaa aaaaaaaaaa aggacaa 57

<210> 50535
 <211> 377
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-030-Q1-K1-E9

<400> 50535

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 atcctctaca ccgcgctctg ccacaccgac gtctacttct gggaggccaa ggggcaaacc 180
 ccggtgttcc cgaggatctt aggacacgaa gcgggaggca tcgtggagag cgtcggagag 240
 ggcgtgaccg agctcgcgcc aggcgaccac gtctctcccg tggtcaccg cgagtgaag 300
 gagtgcgcc actgcaagtc ggaggagagc aacatgtgcg acctnctcag gatcaacgtc 360
 gaccgcggcg tgatgat 377

<210> 50536
 <211> 237
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-F1

<400> 50536
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ccgagaccga gggaaggacg ggtcatattg tacaatcttg atccagctgc tgagcacttc 120
gactatcctg tagatatgga tatcagagag ctgatttcac tggatgatgt tatggaggag 180
attggggtgg ggccaaatgg cgtctcatc tactgcatgg agcaccttga agacagc 237

<210> 50537
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-F11

<400> 50537
ctgctatcct cagtgggtgag ggcaactaga aggtgcagga cctgcttctg cttgacgtca 60
ctcctctctc tctgggtctg gagactgccg gaggagtgat gaccgtcctt atcccgagga 120
acaccaccat cccaccaag aaggagcagg tgttctccac ctactcggac aaccagcctg 180
gtgtgttgat ccaggtgtac gagggcgaga ggaccggac ccgcgacaac aacctgcttg 240
ggaagtgcga gctctccggc atccaccgg ctccccgtgg tgtccccag atcacggtct 300
gcttcgacat cgacgccaac ggcatcctga acgtgtctgc cgaggacaag acgactgggc 360
agaagaacaa gattaccatc accaacgaca ag 392

<210> 50538
<211> 326
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-B12

<400> 50538
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ggatgaagca catgcggtcc ttcgcaaaca tctgcaacgc tggcatcctt cctgaagcag 120
tgtcgaaggc cgctgctcag gcttgacca gcattccttc caacccttg agttctatcc 180
acaagggttt tagcgcctaa gaatcataag gtgaggcgaa atatttcagc cgctccaccg 240
caacgaactg gtttacatta ccagtcctca cgggggtcct agttcttgaa ccatatgtga 300

agcagactta taccactatt atagct

326

<210> 50539

<211> 284

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-B3

<400> 50539

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aacgccatgg gtggtgaggg ccatcaggcc cattcagctg gctgtagcta cgactgtggt 120

ggtggctgct gcagcagcat ggtcatcgaa tgctccaatg ttaacaactt ttactccatg 180

tcttgcagct gtggctctaa ttgtggtctt ggacgcagca gtggcatggt catcgaatgc 240

tccaaggcca acaacgccat gttcgttagc tctagctcta gttg 284

<210> 50540

<211> 294

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-B4

<400> 50540

cttgcgtggt tctcttctg cgacggaagc aaacactgcc cgagacatag acagcgggac 60

gtcgagatgg ccgacgggga ggacgccgcc gacgcgcgcc gccggggccgc catcacagac 120

taccgcaaga agctgctcaa ctgcaggag ctagagtcgc gcgtcggcac cgtgagagaa 180

agccttaaaa ctgcaaagaa ggattttacc aagactgagg acgacttaaa gtctctgcaa 240

aatgtggggc aaataattgg agaagtactc cgacctcttg ataatgaacg cttt 294

<210> 50541

<211> 354

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-B6

<400> 50541

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ccattgagag ttagacgggg accttcttat ttcaagctga catcaaccat ctgatcttac 120
 tcatcatcaa caccttctac tccaacatcg agatcttcct acacgagctt atctccaact 180
 cttacgatgc tctgtacaat atcacgttcg agagtctcac tgactagagc aagctcgatg 240
 ctcagtctga gcttttcatc caccttgtcc catacaatgc cacgaacact ctctccatca 300
 tcgacaacgg cttcagcatg accaagtact accttgtcaa caacctcggt acca 354

<210> 50542
 <211> 415
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-B8

<400> 50542

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 cgccaagatc ttacaggagg tcgagcacgg gttcgccctgc aggttcaaca ccaccgaccc 120
 tttcgtcgtc aagaccgcag agacggccct cgctacatg gtcagctggg tcaacaagca 180
 cctcaactga atgaagcctg cactgtactc accagactga attcaataaa ccactgcaat 240
 gctgtgatat tacgtgtcga ttcattggctc cccacattga ttcgtcatgg ctaagacctc 300
 tactactgga atttccttca ttctttgtct attcaaactc tatgtattac tgcatatgct 360
 tggatatgatc gcaataaagc tcattagggg tatacacctc ctggacgctt taaaa 415

<210> 50543
 <211> 290
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-C1

<400> 50543

agttgcttcg cactactaacc gaagtcccaa tcccaatggc gccaacctgc cgtcctgggc 60
 cggatgcggc gctcctgctg ctgctgctga cggcgagtag cgtcggcgct gcacggggcg 120
 cgccgcgggt gccggcgggt atcgtgttcg gggactcgac ggtggacacg ggcaacaaca 180
 accagatccc caccgcgctg cgcgccgact tcccgccta cggtcgacgac atgccggggc 240
 ggccgcgcgc caccggccgg ttcggcaacg ggcggctgcc cccggacctc 290

<210> 50544
<211> 386
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-C11

<400> 50544

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aagcgccctc cctccggctt cttcgtcttc atgtctgaat tcaggcagga gtaccaggcg 120
cagcaccctg gcaacaagag cgttgcggcc gtgagcaagg cagcagggga aaagtggcgc 180
tctatgtcag agcaagagaa gcaaccctat gtggaccaag ctgggcagaa gaagcaggac 240
tatgagaaga ctaaggcaaa tattgagaag gagagcacia gctcaaagaa ggctaagact 300
gatgacgacg atggctcgaa gtccgaggtc gatgatgagg atggcggtag tgacgaggat 360
aacgacgacg acgagtaaat aggatt 386

<210> 50545
<211> 295
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-C2

<400> 50545

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ctcgtttgct cacagctgac tatcaagttg gttaatgggt gtaccgttgt ccgagtgttg 120
atccacttaa atatattcga atagcatatt tttgtgacat ggcatgctac tggcatgaac 180
ctttgcaagt catgggatgg aagatcattt tgggtttttg aaaaccttta ctatgtgctt 240
ctcattgata gcatgttgca caaatgctct gatgtgttgc taccagagaa attag 295

<210> 50546
<211> 323
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-C3

<400> 50546

cccacgcgtc cggactaatt ctgtttaaat tatctttttc aaggagagag ctctttgatc 60
 ttcaagaaag gtagcatact ttggcacaat ttgctatgga agtggctaga gaatcacaag 120
 tgaggaatgt tgaaggatga attggagcag aaaattaagt attggtggtg aggatggtga 180
 aatctgcatg gaaatttcct caaaacctga gagcttcaaa tgttattggc tgcttcacgc 240
 gctctttggt tttcaaccat actgtgactt gtgttttggt ctaggatggt gtggctataa 300
 acaagtggag gtttatggag cta 323

<210> 50547
 <211> 59
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-C4

<400> 50547

cccgtcacgc gaacgccacc gctgccagcg tcggttacct acgctggcct gaggaaccc 59

<210> 50548
 <211> 274
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-C5

<400> 50548

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 cagctagctg cagcaaaccg tgcttgcttc ttgacacagc aacagttgct ggctttctac 120
 cagcattttg cggctaaccc cgcaacccta ttacaactac tacaattgct gccatctgtc 180
 caacttgctt cgacagaccg agcgggctgc taccaacaac acatcattgg tggcgcctc 240
 tgttagattg cgtattgatt gtaattcaat agta 274

<210> 50549
 <211> 331
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-C7

<400> 50549

gtcatcgtgc tacattgcat agcaaattgt aaaatcaatg ttagtgctct gtgagtagtt 60
aagtgcacatca tgcttagata tgctgctcag attaaactaat gtacgatata agtactgaca 120
agtaatgaga tagattgcac aaaatcatga acttctttca aattcatctg ttttcttgct 180
ggtatacaaaa gaccaatatg agttatgcac gaaaattcat atgtttctgc ttaaaagaag 240
ggaattcatt tgtgaagtat gttatcttca gacttgcata tgatgattgg tttctcgaat 300
gatgtttcta gggatgctct tatgtgaaat a 331

<210> 50550

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-B11

<400> 50550

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cagattgatt agaagggtga gcttgtatga tttgtacgta taataatgtg ctggatgtat 120
tgtaatacac ggctatgcat attgcaacac ctaccatttg ccgttaccta tcttgagtgc 180
gtcctaaatt gtaattgcag ccaagcagcg aaatgtgtag aactaaagaa ccctgagcgt 240
caaaaaaaaa aaatataaat aaatgaatca aaaaattgat atgataaacg caaaaatatc 300
tactaatgaa atttccataa taagttaaag ggtccaaact tgttgggttt ctaaaat 357

<210> 50551

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-C8

<400> 50551

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atccctgaaa agcatcaaaa aggctgttg gaattctact tgtgaagggt gtgagagccc 120
aaaatctgcg gaagaaggat ctgctgggta aatctgacct atacgtgaaa cttaagatgt 180
cagatgataa acttgcattc aagaagacaa ctgtaaagcg cagcaatctc aatccagagt 240
gggggtgaaga cttcaagttt gttgtgacag atccagaaaa ccaggctctt gaagttaatg 300

tcttcgactg ggaacagggtt gggaaacatg aaaagatggg aatgaacatg atcctactta 360
gagaact 367

<210> 50552
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-H3

<400> 50552

cccacgcgtc cggccatttg ggtaacctac cttacaaagt ttgtacatag atacaagaga 60
agcaagttag aacgagcaag agaacttttc catgaagctg tccaacaggc tcctccagag 120
gaaaagaagc ccctatatattt acaatgggca aaactggaag aggactatgg tcttgcaaaa 180
cgtgctatga atgtatatga tgaatctgta agagctgttc ctggcagtga aaaaatggcc 240
atgtatgaaa tctatatagc acgtgctgcc gaactctttg gtgttccaag gacatgacaa 300
atatacgagc aagcaattga atccggccct ccagacaaaag atgttctgac aatgtgcatg 360
aagttcgctt agctagagag aacccttggg gaaattgatc gttcgagtgc catctatgtg 420
catgcattc 429

<210> 50553
<211> 291
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-H5

<400> 50553

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gttgaacgat ggtggatcga tggagaccaa gaacgatctc tccgccgaca gcggcatgac 120
gatggagacg acgaaccgcg gagcgcagaa gcgccactgg ggacactacg cggacgagag 180
cctgcacacg cgcattgaagg cccacgcgca gctcgactac atctacacgg acgacgccgg 240
cgagcgcgga tactaagcca ccaggatgga gtatgccggg gctgaggaca a 291

<210> 50554
<211> 391

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-029-Q1-K1-H6

 <400> 50554

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 ataggtatat tttttggtgt ctatgacatg tggggccagt ggcatacaaa tggttatctt 120
 cctggcttta caggttacag acaaaccggt agctgttggt ttcggtgtat cgactccaga 180
 gcatgtgaaa cagatcgtgg gctggggagc gtacggtgtg attgctggca gtgcgattgt 240
 gaggcagttg tgtgaggctg ctactcctga agagggtctg gaaaggctcg aggagtacgc 300
 caggagtatg aaggctgcta tgccgtgagc tgatctcact tctcgtcaca ggcacgttaa 360
 atagaacatg gttttagcaa tattctgggc a 391

<210> 50555
 <211> 395
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-029-Q1-K1-H9

 <400> 50555

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 attgttgaag aatttatcag acaggatagt aagaatgcc agagacataa tggtgggcga 120
 gtgaatgacc atgtatcagc tctagtga tcaatgatta cagtggcaaa gattgttgat 180
 gggatatctg cagaggttgc gaaggacca aatataccgg tctacaagtt tttcagtcctc 240
 gctgagacag tctcgccaa ttcaaggcca gtccatgacg ggctctatcg cgccattgat 300
 atgtatctga aagagcacc aagcttgggc aagagcgaca agaagaggct ctgtgccctc 360
 atggactgca ngaagttgtc gcccgatgca tgcgc 395

<210> 50556
 <211> 364
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-030-Q1-K1-A10

<400> 50556

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accacggcgg cggcggcggc agcgtgtctg ctgctgctcc tcctgtcgct cgccgcggca 180

gcggacatgt cgatcgtgtc ctacggggag cgcagcgacg aggaggcgcg gcggatgtac 240

gcggagtgga tggcggcgca cggccggacc tacaacgccg tcggcgaaga agagccgcgg 300

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ggcg 364

<210> 50557

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-A12

<400> 50557

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atccatgttg ggatccagca taaggacact aaggaagact ccatgaagtg gttccaggtc 120

aagttccagg gtgtgatcct caacaaggcc taatccaaca cctcctaagc ataagcatta 180

ccataagata ttagactctt taggtctcta gtagagctac tagttaatgg agtatatctg 240

gcagtaggat gtgtattaga agataatcag atgcgtcatc attgttgctt gtactgggtcc 300

tactggaact agttggatcc atgttgtaga gagtgtcgaa tacattgatg ttactactga 360

gctacc 366

<210> 50558

<211> 347

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-A5

<400> 50558

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gacctaaagag gacagcaatg ctaggaacat gactatgacc aagaccaggt cattgggcga 120

catacttgtc agccagattg acgacgggcc atgctatata gattacggtc ttaatgagta 180
 cgtgtgcata aagactaata agtgctataa gatctacatg ctcttcgttg cgagtagtca 240
 acgatcatga tgaatccatt atacttcgga gacataatta tactgccgag acagactgtt 300
 agagatgacg ctagttagat gctggttcac taaaatatta tgtaaca 347

<210> 50559

<211> 391

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-030-Q1-K1-A6

<400> 50559

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 cgccaacgag gtgccaaga ccgcggagaa cttccgcgcg ctgtgcacgg gcgagaaggg 180
 cgtgggcaag tccgggaagc cgctccacta caagggctcc accttcacc gcgtcatccc 240
 cgagttcatg tgccagggcg ggcacttcac ccgcggcaac ggcaccggcg gcgagtccat 300
 ctacggcgag aagttccccg acgagaagtt cgtgcgcaag cacaccgncc ccggtgtgct 360
 ctccatggcc aacgccgggc ccaacaccaa c 391

<210> 50560

<211> 355

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-H12

<400> 50560

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 gaatggcaaa tctgactcgg gaggcagttt atcatcctac atactgccag cagcagcagt 180
 tggagcaatg ggttattgct acatgtggtg gaaggggttg tctctctcag atgtcatgtg 240
 tgtcacaaaa cacaacatgg caaatgctgt tcagagcatg tcaaagcagt tggagcaagt 300

ctcatcagca ctagctgcaa caaaaagaca tctaactcaa cggcttgaga atttg 355

<210> 50561
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-A8

<400> 50561

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gccgtagcgg agagaagaga agagaggagc gcgcgatcga tgtcgggctc cggcgatcgt 120
cgcggctgca gtcctccggg ttcccatagt ggctgggaaa ccatggggaa gaagtcgaag 180
aaacccgggc aagccggggg gagacagtgg gcaccatgga gttccacaaa tgtgacacct 240
aacacatcaa ggccagcatg gcgtggcagt ggttcctcgc acccttcttg aaccagctgg 300
gctcaagctc cagatcatgg tgctgctacc ataggcaatc ctagaccggc atcaciaaaca 360
tcgcgctctg atctggcttc agctctggca aatgggtg 398

<210> 50562
<211> 113
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-A9

<400> 50562

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ttatgaggaa gtgccaatg cataggcaaa agtttttagct agctttaaaa atg 113

<210> 50563
<211> 314
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-B10

<400> 50563

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cgcggccgac gcgcgagctt ggagggttag tgtctcttct ttgcggagac ctgtgatagg 120

agccatcatc atgtacgtcg ctgagactgt tgtcctcaag gttgctatgt catgcgaggg 180
 ttgcgctctgg gcggtcagaa gagtgtctctt caagatggaa ggagttgaaa ccttcgacat 240
 atacctcaac gagcagtacg agacagtcaa aggcaatgtc tagcctgagg acgtctttca 300
 tacggtctcc aagt 314

<210> 50564

<211> 359

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-F12

<400> 50564

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 aggccgcgaa cccgtgcaac ccggcgacgc tgacgcgcgtg cgcggggccg gcgctgttcg 180
 gcggcgcggt gccgccggcg tgctgcgcgc agctgcgggc gcagcagggg tgctgtgcg 240
 ggtacgcgcg cagccccaac tacgggagct acatccgcag cccaacgcg gcgaggctct 300
 tcgccatctg caacctgccc atgccgcgct tgccgtatta gcgggcaata gtatatata 359

<210> 50565

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-F5

<400> 50565

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 ccgtaggagt gacgattcca tggcggacga gatggcgacg gcgcaaccga gactcacggc 120
 gccacgttcg gtccgctgta ttgtcaagct aggtggagcg gcgattacca acaagggcga 180
 gctggagagc atcaacgagg agaacctacg gtcggcatgt gcgcagctgc ggcattgccat 240
 gtccgaatct gacggcgatg gcgccatgga gaaggttctg ggaatggact ggagtaggaa 300
 gcccgagat cctgtcgacc cggccgttga cgcggagtgg atcgcgggga tagctagggc 360
 tgggctcgac actaa 375

<210> 50566
 <211> 408
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-029-Q1-K1-F6

 <400> 50566

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 gtgggagggg aagctcatgc gtgacttcgg ttccctgtc tggaggggtgt cgtggtcctt 180
 gactggcaac atattatgca tagctgctgg cgagaacaac ataaccctct ggaaggaagg 240
 gtcagatggg cagtgtgagg aggcgatgaa ggttgaacca tacgatgacc ggcaagggtt 300
 ctgaatttct tgtagatcca tgtttcgaca cggacaaagc ttgctactgc tttactagt 360
 tttcgacaaa gcttaagttt gccatttgtt tttactagt tttactgc 408

<210> 50567
 <211> 406
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-029-Q1-K1-F9

 <400> 50567

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 tgtgggcggc tagataagat ttgttaggac acttggcaca cctagcgaga agatttggcc 120
 tggctatgct aaattaccag gcgtgaaagt aaattttgtc aaacaaccgt ataataggct 180
 aagggataag ttcccagctg catctttttc tgggcgacca atcctgtctg aagctgggtt 240
 tgatctattg aatagactgc taacttatga tcctgataag cgcatatcag cagacgatgc 300
 tctgaaacac anatggttct ctgaagtttc tctgcctaaa tcaaaagact tcatgccaac 360
 atttcctgct cttaatgaac ttgacaggcg taccaaactg tatctg 406

<210> 50568
 <211> 443
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-G1

<400> 50568

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agtcatgtac aacgagaact gcaccgaact gctgaaccgc atgtagtggg ccgtgggtcta 120
cgtcaagatg cggctctttg acggactgca cgacgtgctc cggtagcagc tcttcgaggg 180
gtcaccgcac gcctagaacg cttactgctc cttctccaac gtgcgccagt ggatcatact 240
cccaattgca tatgcttatt agtatatagt acaagctcca gtcccaattc tccttctgtg 300
ctcctaccac caccgagctt gcatgccgct catgtcacgg tcgacaacct gaatgtgcat 360
ctgatattgc gaacatggca gcttggccgt tggatttgtg ctatggtgat gtatggaatg 420
attaaggcgg ttgtctttgt gca 443

<210> 50569

<211> 342

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-G10

<400> 50569

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gagaggtgcc tgctgctggt tgttgagtaa attaaaagtt ttaaagttat acagtgatgc 120
acattccagt gccagtgta ttcccttttt acagtctgta tattagcgac aaaggacata 180
ttggtttagga gtttgattct tttgtagcaa tgtgtcccgc cccccactg ttgttgtaaa 240
atccgccccat tcgcccagaa ccgcggtggg cggcgctgct agctttgtga tcatatagaa 300
aacgacttgg ttgtttttgg acattttgaa ttgaaagaaa ga 342

<210> 50570

<211> 274

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-G11

<400> 50570

caagaccatc caaactcgga tttaaattct tttggaaacc tttcgtaaag gtgcagggtc 60

gactgtacag gcagcagggt ttcttacaat actctaagct gtgacaaact tgtttggtcaa 120
ctcatgcttg caccagtggc ttatgacca cttttctgag atcattgatt ctgtgtcaaa 180
cttcaagtct tcttttagca agaatgcaca attggcatat gtcacgcttc tactgaacta 240
ctctgctctt tccattgaat caaatgaaga acat 274

<210> 50571
<211> 318
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-G12

<400> 50571

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gccgggctac cgcttctcct catcatgggg gtcattgtgc tggggctttt cacggtcac 180
ggcatattct acagtgtcct ggtcgcgacc atggttggcc agcggatctg gcagcgccac 240
taccacattc ttgccaaacg gttgctaacc aaggagtatg ttgtagagga cgtcgatggc 300
gagcgcacag actggtgt 318

<210> 50572
<211> 160
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-G2

<400> 50572

aaaaaaaaa aataaaaaaa aaaaaattaa ataaacaaaa aaaaaaaaaa cataaaagta 60
gggataaaca acaaaaacgt gaagaaaaat aaaaaaaca aaataataaa tcataacacc 120
aggccaacaa aaaactatat aaaaggcact acaaaacctg 160

<210> 50573
<211> 453
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-029-Q1-K1-G3

<400> 50573

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aagttcctca tgctttggat ttggggataa catacctgtt ttatttacat gctaataattt 180
ggaccaacaa aaaatacctt aggaacagcc atttgagaaa aaaacaaagc ctttttagtcc 240
taagcaagtt agcatagctt agagttgcaa cttctacatg agcacaataa acagaaaaga 300
aagagaaaag gaaaataaat atatattgga ccaaagcta ttaccatgtt ataataataa 360
tntaatgacc gaattataaa cattnttaca atcttagcan acctctcaac gtgtagtctg 420
aatcgacaga acatcagtag agtaattttt gtt 453

<210> 50574

<211> 312

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-G5

<400> 50574

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atagatcgac gacacgcgcg cgatccaggt gaggagcgaa agacacggtg gccttttcga 120
atccgacgga cggcgcgtag cgctagctag ctctctaggc ctgagaggag gatcgtggga 180
cgaggatcat atacggactt ctagtgcaact gctgtcacag tggtagctac ggtggcttcg 240
ctgcctcagc agttgaatgt gctgatctac gacacgctgt gctcgacggt cgcgatcatg 300
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<210> 50575

<211> 444

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-029-Q1-K1-G8

<400> 50575

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gcgttgctta tacgaaggat ctaccccacc tgaagggtttt cccaacaact ggagcggcgc 180
gtcgtactgt acgtcggatc tgtccatcca caaaaacggc gaagtacata tctgggacaa 240
aggttttgac gacgaaggga accagggtttg ggggaccaag gctggcccct acgagttcaa 300
gcctgctccc aaatccaaat atgacgacat gttctcgccg ttaaatttct cggctccttt 360
gtcgttagag aagaagctgg ataaaacata tgtaattgat gaccagtang gcctgcccta 420
aatTTTTgtt cataggaatg gaat 444

<210> 50576
<211> 76
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-029-Q1-K1-G9

<400> 50576
aaaaaaaaa aaaaataaaa aaaaaattta aattaaaaaa aaaaaaaat aaaaataagg 60
aaaaggacaa aaaaaa 76

<210> 50577
<211> 381
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-029-Q1-K1-F11

<400> 50577
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gttgagccct actttttcct ctttgtgagg acaaaccgtt ttatacttgg tcgtgttgag 180
tcgttgccca tttctttgga gaccaagttt tgcttacttt ggatgacttg tttggccatt 240
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tatatgttca tgtggtggtg ttgacattgc actcattaaa tgggagattg cgaacacaag 360
attgagttgc tccttgtggt t 381

<210> 50578
 <211> 314
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-H1

<400> 50578

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gggacagtga tctgagcgcc agggcgtctt gtgccaagag gccgctctcg ggactgtcta 120
ctgcgacttc gggtaaaatt caccggactg tccggagtgc accggactgt ccggtgagcc 180
aactgtctgt caggccaact gacggacggg tgatctgctc gcgacacgtg gccatgccaa 240
cggtcagagg gaagcaccgg actgttcagt gtgcaccgga ctggccggtg cgccagatct 300
gcaacgggtcg ggaa 314
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<210> 50579
 <211> 322
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-D5

<400> 50579

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tctcctgcga gacagctaatt gccttctgtt aatgtacctt cgctactaag tctgccggat 180
tatggatact gcgatgcatc gtctcatgtg taactaagaa tgtcgtgctt tgaggcgctc 240
gcaactgctg tgcctagatt tatctttatg gatgtcaagt aacatcatgt accattgaca 300
ttgttgaaaa ctttgctttt tc 322
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<210> 50580
 <211> 403
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-D6

<400> 50580

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gcagcagcag tcaggcggcc atggacgcga gcgcagccgg agccggcggg aaggcgaaga 120
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 aggccggggt gcagtttccc gtcggccgca tcgggcggta cctgaagaag ggccggtacg 240
 cgagcgcgt cggcacgggc gccccgtct acctggcgc cgtcctcgag tacctggccg 300
 ccgaggtgct ggagctggcc ggcaacgctg ccaaggacaa caagaagacc cgcacatcc 360
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<210> 50581

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-D7

<400> 50581

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 ctgctgcgga gcacggcccc cgtgctgctg taccagggcg tccgcgacct ccgggacggc 120
 gtcgtgtcca ccgagggcgtg gctgggcggg gtgcgctggg acggcctgcg cgcgttcctg 180
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 cagcggtcgg gctcgtgac gcacgtggtg gtgtacgccg cggggcacct agtgccggcg 300
 gacaacgggc gcgcggcgca tgagatgac gagggatggg tgctggggac agggatgttc 360
 ggccgcgggt gtggtgatcg tggtcgtac tgcttcagga gcgccccac atgatg 416

<210> 50582

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-D8

<400> 50582

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 cgagctctcc gtgctctgcg acgccgaagt cgcgctcatc gtcttctcca accgcggcaa 120
 gctatacgag ttctgtagcg gaccgagcat caccagaaca cttgagaggt acgaaaaaaaa 180
 cagttatgca ggcccagata ctgctgtaca gaacaaagag aacgagttag tccagaacag 240

ccgcaatgag taccttaaac tgaaagcaaa ggtggataat ttacagagga ctcagaggaa 300
 tttgcttggt gaagatctgg gttcacttgg tgtcaaagag cttgatcagc ttgagaagca 360
 aattgattca tccttaagtc acataagatc cacaaggaca cagcatatgc ttgatcagtt 420
 aactgatctt agaagaagta gcaaattg 447

<210> 50583
 <211> 424
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-E1

<400> 50583

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 tgaatcagaa ggaaactttg tgcaaccaac aatttgtgaa attacacctt ctgcaccagt 180
 tgtgaaagaa gaactctttg gtcctgtcct ttatgttatg aaatttcagt ccttgaaaga 240
 agcaattgaa atcaataact ctgttcctca aggattgagc agttctatat ttacaaagag 300
 gccagatatt atttttaagt ggctcgggcc ccatggtagt gatttgtgga tagtgaatgt 360
 gaacatacct actaatggtg cttgaattgg gtgaacatth tgtggagaaa aacaacttgt 420
 ggtg 424

<210> 50584
 <211> 334
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-E12

<400> 50584

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 tgcgctccac tccagatcca attggcaaca agtactatct tggccctgct cctctgcagg 120
 atatggcaag gcaaattgct acagccaatg gccctactgg ctataatagg gattacctgt 180
 tctcaatgga gaaggcatta gccagcatta gccacgaaga tgattcgatc atagagcttg 240
 caaacgaggt gaggaaggtg ctcaacagaa caaaggagac caagatcact ggtgccaatg 300

cttccatgaa atcacatgcc cctcttgtgc acct

334

<210> 50585
<211> 259
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-E2

<400> 50585

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cgacacaggc tgtggcacag gctatgcacc atgagattca ccgtgattct caatctaattg 180
tgacacatat ggagcatcat atgcatcggc ctgggggatgg gcaatgggac cctgacggac 240
acattgcgcg acatcttat 259

<210> 50586
<211> 446
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-029-Q1-K1-E3

<400> 50586

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acagatgaag atatccgcat ggctattcaa aatgcaactg gtcctagaag tgctctgttt 180
gtacctgaag ttccatttga agtccttgta cgtaggcaga tcagcagatt gcttgatcca 240
agtcttcagt gtgcacaatt catatatgat gaacttgtaa agatgagcca tcgctgcctt 300
gcaatggagt tgcagcagtt tcctatactc cgcagaagca tggatgaagt cattgggaag 360
ttttgcggga tggacttaaa ccagcagaaa atatgatagc acacattatt gagatggaag 420
aagattacat aaacacgtna caccca 446

<210> 50587
<211> 441
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-029-Q1-K1-E5

<400> 50587

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atcagcatcc tcgcgagga ggcctcctc gggttcgccc tgggctccgt ctctatggga 120
ggtttcgtcc tccaccagcg ccgcgccatc taccgctcaa tcgctgaagc cgatgggtcg 180
tcctacttct accagcctgg tgaaattgcc ggctgtagaa gttcaactga actgggtcat 240
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ggatggtgat ccaagcacca tgcgaacat ggcaactgan gaggcacggg tggaggaaga 360
actctttttg aagccactga tgtgctcata tttctctgta tccggattga acatgttttg 420
gtttaaaaga aaagatgctc c 441

<210> 50588

<211> 428

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-029-Q1-K1-E6

<400> 50588

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ctctgtgct gccgccctc aggtacttgg agttggcaat ggagacaatc acatgagaat 180
catccaggag gacatcattg agacagtcaa caaccatccc agtgctgggt ggacagcctc 240
acgtaatcct tacttttcaa actataccat tgcgcaattt aagcacatac ttggagtga 300
accagcacca cagaatgcac taagcaatgt tcctgtcaaa acttattcaa gatcactgga 360
acttccaaaa gagnttgacg ctagatctgc atgggtcccgt tgcagcacia ttgggaacat 420
acttgatc 428

<210> 50589

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-E8

<400> 50589

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acagcagcga cttataattc tcatcccgaa ttcacagcc tatttgtcaa agcactcgga 180
ggttcagtgg caggctcaga taagagaata ctgttcctat gtggggacta catggaggat 240
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tgccccgaca agggagctgg ggagacgtgc ccgacagcca ttcatgattt cgaaggtgac 360
cagacctaca gcgagaagcc tggccacgat ttactctga caagcgtcgt tggaagtgtg 420
gatgc 425

<210> 50590

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-F1

<400> 50590

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tgccggcgga gctggtggcg gcgggcagcc ggacgccgtc gcccagacg aaggcgtcgc 180
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acggccacct agcctactcc cacaccaacc aggcgtcct cgcgccagc tcgttcgcgg 300
ccaatgacga tgtgttctgc cttgtcgagg tggtgctgga caacctgggt cgtctg 356

<210> 50591

<211> 333

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-F10

<400> 50591

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gcggttgcca ctgcccttat tcaggttgct tacatgggat tggttgggtc gtttcccttc 240
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cgcatccaag tgaacaaaga caacaaaga ttc 333

<210> 50592
<211> 122
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-D4

<400> 50592

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ggtccatcat gcatgcactc ggccattgaa cctatcagaa gggacgtca catgcattca 120
ct 122

<210> 50593
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-B8

<400> 50593

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ttcaatttcc gctggaccg ccgcagctc gccgtcgtcg gcctcttcgg cctcgctgtc 180
cccacctcgt tctacaaggg catcgccgc gaattcgacg aggatgcagg ccggccatac 240
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gcgaggaggg gagtttccat tcagtttggt tcggtattgt ttagtctga atctgatgga 360
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ttttcaatta ctgaaactga acatgttt 448

<210> 50594
 <211> 247
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-029-Q1-K1-C10

 <400> 50594

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 ttgtgtgtcg cggttcagttt ggcttttgcc aagcagtagg atagctgccc gtgtcagtaa 180
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 caactaa 247

<210> 50595
 <211> 270
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-029-Q1-K1-C11

 <400> 50595

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 cggagcccgc gcgcttttgt acctgccccg ctaccogtct gccccgtcgg cccatgggct 180
 ctgcaagggt ctgggatatg aaccaacatc ttaccttagt ggaccacaag ttttacctcg 240
 ttggttttcc tctctagcat tcaatggatc 270

<210> 50596
 <211> 357
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-029-Q1-K1-C3

 <400> 50596

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gtggatctcc aacgccaccg gctactccgt ctccaagcac gtcccgtctt gggagctcgt 180
ctggttctcg ctcgctcgca acacctccat caccgggatg aacctcagcc tcatgctcaa 240
ctccgtcgga ttctaccaga tctccaaact gagcatgatt ccggtggtct gcctcatgga 300
atgggtgctc aacagcaagc actacaccac taaggtcata tccgcagtca tcgtcgt 357

<210> 50597

<211> 439

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-029-Q1-K1-C4

<400> 50597

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gctcgtggct gtgccgacgt agcgactcag tccagcgagg cgcacccgca tgtgctgtga 180
tgctggcaac agcctacaag gatgactgca ctgctcgcaa gcaccgtgcc tgctgtgaac 240
agctctgtct cggagcgctg ttcgtcagcc aacacctgac tcaccgggat gaaccttagg 300
ctgatgctca atttcgtcgg attctaccag atctgcaaac tgagcatgat tccggtggtc 360
tgtctcatgg catgggtgct caacagcaag cactacacca ctaaggatcat atccgcagtc 420
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<210> 50598

<211> 313

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-C5

<400> 50598

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attgtctcca tcggcatcgg cttcatccag ggggccaaca tcatggtggg cggctccttc 120
tacggagctt tcattaaccg ctgcttgctc ttctgccgag acgttgctcag atgggagtgg 180
ggctaccagt gggcgactg ctttggaacca ctcatcggcg gctgactgga cgacgttatc 240
taccagctgc tactcatctg ccacaccac gagcagcatc cctgcagcga ctactaaaag 300

ccgcagccga ccg

313

<210> 50599
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-C6

<400> 50599

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catcaggaca tgctcgaggc acacctccgg catccaaatc caagcaaaag agaaaatcag 120
gtgttgatga tgcaaaaact tctagtgggtg cagcttcaaa gaaagcaaag gtggaattgg 180
atgcgaaagc atcaggcctc aaagaggagg catcatcttt ggcaaaacct gcatcaaaga 240
cctctgctgc atcaaaaagt gggacaagcg tatcacctgt cacagaggat gaaatcagga 300
gtgttcttct tgcagtgggt ccagtcacca cacaagatct ggtatccaga ttcaagtcta 360
ggcttcgagg tgcagaagac aagaatgcat ttgctgaaat tctgaagaaa att 413

<210> 50600
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-C8

<400> 50600

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acgtgatgaa tgctctctc gaggtctctt ttgacggtgt gggcaaggga tttgcaaagg 120
aggtcgtgaa gaacaagaag taccttgtag ttgctgtgcc agatgagggg gccagaccc 180
tgctggttca agccatcgag gcttttggca gcaagtgcaa ccccgaggcg ctgaaggagg 240
tcccagttgt cctgaaagcc ctgtacgacg gagatatcct ggaggaggaa accgttgttg 300
actggtacaa cgctgctgtc gcagctggaa aggactccca ggtcgtcaag aatgccaaagc 360
cgtttgtcga gtggc 375

<210> 50601
<211> 396

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-029-Q1-K1-C9

 <400> 50601

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 aggtctccgg caccgggac catgagctcc tactccggcg accgctctc ctctctctcc 120
 ttgcgcccc ccaacacctc cttcgactcc tacaagtctg atttcggcat caactctctc 180
 cgctctccg gctctcgccc cctccgcgac cagcggccgg gcgaggctac caacctcca 240
 acgaggcccg ccaccggcgc cactgggatg caccagcccg ccagcgccaa gccgacgtgg 300
 acccaccagc ctctctccgc cgcggcgtct gcgccacca tggctggggc tggatccggg 360
 ccaaccttca tggctcgga catcttttgc ctgagc 396

<210> 50602
 <211> 330
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-029-Q1-K1-D1

 <400> 50602

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 ccacctaaa ggctcttgga gtaccttgcc actgtcacca atcaaggttt catgtcagac 120
 cttgacattc agatgccaac tgccttcgat cccttcgttg aggccaatgc tcgcgactct 180
 ggtgccgccc caccgtcaaa cgactacgta cactgacgca ttcagcagcg taatggtcgc 240
 aagagcctga ccaccgttca tggattgcag aacgagttca gctacagcaa gatcctcaaa 300
 gatctcaaga acgagttctg ctgcaatggt 330

<210> 50603
 <211> 246
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-029-Q1-K1-D10

 <400> 50603

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cggtcttgat aaagagcagg gcattcgtct agcttctgta gtctgatata attctgtact 120
 cgctgactcc atgtactaa gccttcggct tcatcaggaa acccaacaag taaccgactt 180
 ctactagaaa gccatacctc tcttactatt atcaggacca ccaaaaactgc ctcttgatct 240
 gttgct 246

<210> 50604
 <211> 370
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-D11

<400> 50604

gtatactagc atttagcagc tcatcaacgc gctcaacctt gcacgacgta cggcgaggag 60
 gcgccgcggc agcaactgct cgccgcttgc ggctgctgcc ctgcccctac tactctctct 120
 cgtcgccggc tgttccact gcatggcagc ggcggtcgc cacctgcctt ctctggcg 180
 cccagtccaa gcgctggatc accaagccga gaacggagtc aaggctgcat cagctggcg 240
 agacggcgcc ggcgcccttg tgctccagga aggtggcacg ggcaacaacg gcgacgacct 300
 ctctacaaa accctctctg agacgacgac gacgacgatg ggagcggaag cgtgccacga 360
 ggggaacgac 370

<210> 50605
 <211> 334
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-D12

<400> 50605

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 ctccctccac aacgccttca gcacctacgg cgaggtcctc gaggccaaga tcatctctga 120
 tcgggagacg cagaggtccc gcggcttcgg ctctgtcacc ttctccacgg aggaggcgat 180
 gcggaacgcc atcgagggca tgaacggcaa ggagctggac ggccgcaaca tcaccgtcaa 240
 cgaggcccag tcccgcggcg gccgtggagg cgccggcggt gggtagcgtg gtggccgtgg 300
 aggcggcgcc tacggcggtg gccggcgccg tgat 334

<210> 50606
<211> 396
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-029-Q1-K1-B6

<400> 50606

aaaaataaaa aaaagaggta gcaagtgaag agggagaaaa aagagatgtg ttattgtagg 60
tcttagtaca tcttagtctt gccaatgcag ctcaaaagaa aaaagaggta gcaagtgagg 120
agggagaaaa aaaaagagggt gttattgtag gtgttactaa tgttgtagct gttgtgcagt 180
tgtaaattccc ccttcggcag ctgggttttat ttctgatgt aatgtaagca agagcaagggt 240
cctgtcagat gcgtgcgctg aaagtctgaa cctccgataa tatctgatgc ttcttgtaga 300
tagctgtttc agaattttcg gttaatgaac ccagttactg cttgcttggt gatctatttt 360
ctgtgttgct atctgatggg atngttgtgg tgaaaa 396

<210> 50607
<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-D2

<400> 50607

cgacgactac ggctacggct acgccgacga ggacctcggc ctcatctcca agaaaggcaa 60
catcaacagc ggacgcgcta gccaggcca gggaggcgcc gccgctaaga aggacgacga 120
cgagtaggcc tcgccgcctc ggctcgccc cccggctccc tcgatcgcca gcaagaacca 180
acaagccctt ctgtctgttt aattccagta tcagttcgat tctcatgttg aataatcatg 240
atcatgtggg tttaggtgtc gtgctcacga gtatgtagtg tagctcctgc tagcacagag 300
cacagcacag agccactggg cgatcgacgg gccgtgcatg gcctgtagat accatctcat 360
atgttcacca ctgctacttt gctcatgttg ggggcctctc ctgaactggg ttcttggtatg 420
aacttgattt ctattagttt tccgg 445

<210> 50608

<211> 372
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-029-Q1-K1-D3

 <400> 50608

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 agaagggtta ctttgtcctc aacgattact ttcacttcgt tgaccaagaa catgtgcagc 120
 ctgcgccagt gattgctcag gaagactacg agagcaattt ggcacccaac acagttgttg 180
 agaccgctcc tgagtacgtt cagcaggaag aagctcaaca aatagcacct gaagtacatg 240
 atgtggtcga aaactatact tattctgagc cacaacagca agtagtgtct gacaactggg 300
 gagaggagcc tctttctgaa gaaccggctt ctttctcaaa tgaaatggca gtcgctcctg 360
 aggagccagt tc 372

<210> 50609
 <211> 357
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-029-Q1-K1-A1

 <400> 50609

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 tctgcctcct tatgtcctc ggtctttctg caagtgtgc tacagcgacc attttcccac 120
 aatgctcaca agctgtata gcttaccttc ttaccgcgt cctctcacca acggtgtcta 180
 ccgtatgtga aaaccaatt cttcaaccct acaagatcca acaggcaatc gcatgctggc 240
 atcttaccta tatcaccctt gatcctcaa caatcatcag cctattaca gcagttacct 300
 ttggagcatt tattggcaca gaacatcacg gcacaacaac tacgacaact tgtgcta 357

<210> 50610
 <211> 413
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-029-Q1-K1-A11

 <400> 50610

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 tacggaaggc catggaaggt cttctggaac gcgctgagga ggaagtacca aggggttcgg 120
 caaaagttcg agctgtcttt agtagtggca gtggaaaggt ggccggatgc atgattacaa 180
 caggaaaagt tgttcaagat tgtaatgtgc gggttcttcg taaagggaaa gaagtatatg 240
 tgggttcgct tgattccttg agaaggggtga aagaaactgt gaaggaagtt ggtgctgggc 300
 tagagtgtgg tattggggta gatgacttcc atgaatggga tgaaagtgc atcatagagg 360
 cattcaatac cgtgaataag ctgaatggtg agctgaaact attgtgctga aac 413

<210> 50611
 <211> 343
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-A12

<400> 50611
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 atctcgatcc gccctcaaag ggagtcaagc ctctccagc ctttcctttc aaatcggatt 120
 tgtttgctca agttgcaaga tggataagag gaccaagggt gcagtttgtg ttgctgctgc 180
 acataactta ctgtcaatga tggccgtgat tattgctct agaaaaagaa aacgaaatgc 240
 aaggagcgca cagattacct atgcaccatt gcatgtgagt ggtacaggct gggatgaaga 300
 taattttgtt attactctgg atgaagagca ctataatggt tat 343

<210> 50612
 <211> 389
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-A3

<400> 50612
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 gactccccct acgctctcca cctcgccatc gccgcgctcg tcggcgctc cttcgccgcc 120
 gcctccgcct actacatgca ccgcaagacc ctgcaccagc ttctccgttt cgcgcgcgac 180
 cagcagcgcc gccgcaaccg cctcctcccc gaaggcgacg aactggagga cggcgaagag 240

gaccctccgc cgcactggga tcatgatcgc cgcacctgc ccatcccgac gggcctcccg 300
 ccgctccaca ccggccgaga gggtaggcca gttgtttctc caggttcgac taaaagagtt 360
 ggacctattg ttagaccgac tacacccaa 389

<210> 50613
 <211> 265
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-A4

<400> 50613

ttctacgatg gtgatcggcg accgtgagct tacatgtgct gtgttctgat acttgagact 60
 gttattatga ctatgtataa gatattgtct cttattagta ttggatgatg agatgtatct 120
 tattatgact atggatgaga cttttgagat gtcattgatg agactatgga tttaaatatt 180
 gttatgtgat tgggtgtgaa aaataatgag aagcaaaaaa actgaaagac aagaaaaaaa 240
 gaccctacaa cggactggga tcatg 265

<210> 50614
 <211> 442
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-029-Q1-K1-A6

<400> 50614

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 gaagaataca gatgctcagc agacatatgc aactaatggt gcataccaga gttctcaagg 180
 caattgttca gagaatgata ccaacaatac aacagtcttt gtgggtgggt tagattccaa 240
 tgtagacgag gagtatctaa ggcaaatttt tactccgtac ggagaaattt cctatgtgaa 300
 gattcctgta ggcaagcatt gtggatttgt tcaatttacc agcagggtcat gtgctgagga 360
 agccatccaa atgctgaatg ggagtcagat tgggtggacag aaagctcggc tttcatggng 420
 ccgtagtact caaacagac ag 442

<210> 50615
 <211> 306
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-029-Q1-K1-A8

 <400> 50615

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 aagacaaacc tgaacgtgga gcaagtgttc ttctccatcg cacgtgacat caagcagagg 120
 cttgcataga ctgattcaaa gccagaggac aaggcaatca aaattaacaa gccagaccag 180
 ggttccgagg caccatctgc ccatcgatct gcatgctgcg gttcataagc agacgcacga 240
 tagccataat cattgggttat ttgacactat ttatttcctg cttggcattt ataggaagaa 300
 tctgaa 306

<210> 50616
 <211> 392
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-029-Q1-K1-A9

 <400> 50616

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 cggattaccc tttcaagcca ccaaaggtgt ctttccgcac caaggttttc caccgaaca 180
 tcaacagcaa cggcagcatt tgccttgaca ttcttaagga acagtggagt cctgctttaa 240
 ctatctcaaa ggttctcctg tcaatctgct cactgctcac ggacccaaac cctgatgatc 300
 ctcttgtccc tgagattgct cacatgtaca agaccgacag ggccaagtat gagtccaccg 360
 cacgctcctg gacacagaag tatgccatgg gc 392

<210> 50617
 <211> 429
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-029-Q1-K1-B1

 <400> 50617

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ctgttatttc tatcattttc agcagctgtt agtagagaag ccaagtagat atgacgtgga 120
tatggtttgc agttattaaa acttagcagt tattttggaa ttttgtaaac aaatagatct 180
ctagaattgc tgtcctcttc tggaaaaaga atgttgaaat tttctacaaa acaaaattat 240
aagtaatatc tatgtagata gtggccttgt caaccttcac gtatgtgtac cttgatgtta 300
tgtcgtattt gcatagtgat tatttttaag gtctaagggc atttaagtac tgtatactgt 360
aagggcttat gtagcaacta gtgtcagaaa tgaactataa gtgtataaaa gtgtttaaaa 420
agcaatttt 429

<210> 50618
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-B10

<400> 50618

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agcaagggac aggatggggg atcatgatgt ctgcgctgct atgtctagag cgctgatgga 120
taaaagtga acaatcacac tagatatatg tacctctatt atgcctgtcg tcaccaatct 180
tctggacagc aaaatagaca gacactcaat catcgcatcg gaatcgttcg tgaagcttgt 240
aacgacttca tgtccaatga tacatacaac agtatcgaca ggtccttgtg ttggactaga 300
ccttgatgca gaacatacga cgcagcgctg caacttatgc ttcacgaat tggagaaagc 360
caaaaataat ctt 373

<210> 50619
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-B11

<400> 50619

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ggcgccatag accagcggca cgatggaggt cgcaccgac atgtacaaca ccaacctgga 120

cggcaccaag gactacctat ctgtcggcat ggcctccgtc cggcgatct acgcctactt 180
 cgccgtctgc tatgtcgtgt tcttggccgg atggctctac gtcaccctct accgcaaccg 240
 actgtccgcg cagcgcatgc accacctcat gtcgggcctg ctcgttgcg cggatgctcta 300
 ctgcatctcg gcggccgacg accagcacta cattcgcacc gtcgggacac cgcacgggtg 360
 ggaca 365

<210> 50620
 <211> 398
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-029-Q1-K1-B12

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 tggtaggggt cgacgagagc gagcacagct tctacgcgct gcagtgggca ctgcagcact 180
 tcttcccgcc gggccagccg cagcagtacc gcctcgtcgt cgtcaccgcc aagcccaccg 240
 ccgcctccgc cgtcggcctc gccggcccag gcgccgcgga tgtgctgccg tacgtggagg 300
 cggatctcaa gcgctccgnc ctgcgcgtcg tcgaaaagc caaaggcctc tgcacacagg 360
 cgagcgacgc tgtgtttgag gccctctgag gggaccct 398

<210> 50621
 <211> 390
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-B2

<400> 50621
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 atatgtgggc aatgggtgcc ataatggctg agttgttgac actccatcct ctctttcctg 180
 gaactagtga agctgatgag attcacaaga tatgcaatgt catcggtagt ccagatgagc 240

aatcttggcc tcaaggattg tcaactgcag aagcaatgaa gtatcagttc ccacagatca 300
aaggcagtca actggccgag gtgatgacaa cagccagtag cgatgcaatt gacctcatct 360
catcactatg ctcatgggat cctagcaaga 390

<210> 50622
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-B4

<400> 50622

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ttgagaacaa tgaaaacaag ccagtgcga acagcagaga tacacatgag gtgaagcttg 180
agcaaggcct tcaagtgctt aagattttca aggatcatgt ctgcaagaca tccatactgg 240
atgacttcgg cttttatgat aatcgtgaga agatgatgca agagaggaaa gccaaacagc 300
agcagtcgct gaaaaaggtc attgatgtga agctgccag cgtcaccgac atggagagaa 360
gtcctaaatg tgagactgga tcaacagaac tcaactgtgtg tgggactgac ttcttgaaca 420
aagagcggt 429

<210> 50623
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-B5

<400> 50623

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ccgtccagaa gcgcctcatg ttcgaagacg aatgcatttt ggtggacgag caggacaatg 180
ttgttgcca tgagtcaaag tacaactgcc atttgatgga aaagattgat tctgagaatc 240
tgctacatag ggcattcagt gtgttccttt tcaactcaaa atatgagctg ctacttcagc 300
aaaggtccgc gacaaagggt acctttcctt tagtttgac caatacctgc tgcagccacc 360

ctctgtaccg tgagtctgag cctatccagg agaactacct tgggtgtgaga aatgcagcac 420
agaggaggct actggatgag ctgg 444

<210> 50624
<211> 337
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-028-Q1-K1-F5

<400> 50624

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ggacgatatg ggggtgagaga ttgtgcgtgc ccatcttttg tcgggcttgg gcaaagatat 180
gtcgagatgt ttactttctc tgtagaattt cgtgaagctg ttgcattggt cgtttgaaga 240
tggcgacgat gttcagatga tgcttcatgt tgaaggacat atctttattt gcttcattgt 300
accagattt tatttgcttc atgttgaacg acagact 337

<210> 50625
<211> 357
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-028-Q1-K1-F8

<400> 50625

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aggcggcccc cgcggcacag gagacggccg tgcacatcgt gtacgttgac cgccccgagg 120
acgccgaccc tgaggagtgc cacatccgca ccctcacccc cgtcctcggc agcgaacaga 180
aggccaggga cgcagtgtc taccactaca agaacgccgc cagcggcttc tccggaagc 240
tcacccccca gcaggtcaag gatctcaagg agcaaccagg tgttctccag gttgtgccga 300
gccagactta ccagctacat ggtcctgggt ctggcactca ccagggcacg acacaca 357

<210> 50626
<211> 234
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-028-Q1-K1-G5

<400> 50626

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catctgctca gcctgagctg tcattcccgc gaagcgccgt ctcccggatc tattgatgga 120
ccgagtcgcc gacctggtcg tagcgctcct cgtgctcttc ttggtcgtcg gggccacgga 180
gcacgccccg gtcttgctgc ccaagcgac tacagcgcca gcgctacaca ggac 234

<210> 50627

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-028-Q1-K1-G6

<400> 50627

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tgtgaagagg cactggggct cttcactgac ttgattcacc tggatccatc tcataagcag 180
tactatgagg atgaacggag cttagccctg atggataagt taacatgtga catggagact 240
ttcacgaagc attgttctgt tcaggttcaa ccaaattcag ctcccctgca tcatgtgcag 300
tttcgcagat tgtctgtaac acgcatcgga tttgctgagc gcctgttgtg ggttcaaattg 360

<210> 50628

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-028-Q1-K1-G7

<400> 50628

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attgcaggag tcatacaaaa acttcaagat gggtcagatt aagaaagacc agttcatcca 120
gttccttcgc aattacgtcg gagaccaagt gctgaaaacc gtggccaaga aacttcgacg 180
atgctaaatt tctagtgcgc ggtgcgacat cattatctcc ttgatttcta ctcgagctgt 240
ctgtagtagt gctcagtaga gatgaggagg ttcacttctg tttctgttga ttcaagtttc 300

tgtcaagggc ttataggggg tttggcgcgc tgttcttaca ttaaccaaca gtgcaacaca 360
taggatagat gcagtttctg atactgagac gtttgattct tctttta 407

<210> 50629
<211> 362
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-028-Q1-K1-H1

<400> 50629

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gctccctatg cctctccacc aggggtagac tcgagggatg gatattctca accggaggca 120
agacctgcat actcgagcc atacccccca tcctatgggg cgacaccgca acagccgacg 180
tatggtgcac aacaccccg gacgtaccag ccgcctctg gccatgactg cggtcagccg 240
gcatactctg gatggcgcg gccataccca tactacaatg cccccagcc gcagcaatct 300
gtgccttgtc cacaggcgcc gtacaatgcc actgggggtt acccttcgca ccagagcaac 360
ta 362

<210> 50630
<211> 302
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-028-Q1-K1-H2

<400> 50630

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atggactccg gctgaggcgg cgtcttgcc gccgtgctct gcatgctgct ggtcttcgcc 120
atcttccttc tctnctctg gcgccgccac tccgatgccg ccaccgccga taaccaccgt 180
gtcccgcccc agccctcca ggaggatcag gtgctgcacg gtctcactgc ggcgcgacgg 240
atgcgtctga agcctggggc tgccggagca agctcctcta ctgcgtcaac tagccgcaat 300
gc 302

<210> 50631
<211> 364

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-028-Q1-K1-H3

 <400> 50631

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 tggaactcgg tgctggaagc tgtgcggcaa ggggtccgca tgatctgcta cctgtctctc 120
 gcagaccatt tcgtcaactg cgcctacgtt gttaacgtgt ggaaggctcg ggtggagctg 180
 gccaccagtg gacaggggtga tgtgaaagac tgcacgcaga gagtcacgga aggcgacgat 240
 ggacggcgtc tgcagcggaa ggtgaatgcg ttgcgagaaa cagtcacggc ggggtgaggca 300
 atgcgtgctg ccaagaggaa cctcacctta ttcacggaca gaatcaatgg cagtttagcg 360
 caga 364

<210> 50632
 <211> 429
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-028-Q1-K1-H4

 <400> 50632

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 acagtggatc caagtattct ataaagcatg catgctccaa tttcccacaa gcgagaatgg 120
 catgatatga tggatgaaat ggctgttgcg gtcaaagtgc tttcaaggat caattgtctt 180
 tcaagaacca cacttatgta ttggtttgtg tgcagttcaa gctctgcaag gtaaggtctg 240
 ttcactttgg ccagaaagtc atgccctacc tgaacaccta cgacgaccgc accatccgac 300
 ttcgaccctc tcatcaaggc caacgacacc atcaagatcg atctggagac caacaagatc 360
 atggacttca tcaagttgta ttgccaatnt catagacttc atcaagttat atactttagt 420
 aggtcfaat 429

<210> 50633
 <211> 380
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-028-Q1-K1-H5

<400> 50633

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gaggaccgca agctccgcat agaggacgcg aagaatgcga cttttgcagc aatagaggaa 120
ggtattgttc caggaggcgg tgcagcatat gttcatctat cgacattcgt accggctatc 180
aaggagacgt tggatgatcc tgaggagcgc ctaggtgctg atatcattca gaaggctttg 240
gtggcacctg cagcgtgat agcccataat gctgggggtgg aaggtgaggt gattgtggat 300
aaaatccggg aaagcgagtg ggagttcggg tacaacgcca tggcggacaa gcacgagaac 360
ctggtggagg ctggtgtgat 380

<210> 50634

<211> 437

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-028-Q1-K1-H6

<400> 50634

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gccatggacc ttgcggacgg gcgagacgac gccctcaatg gagggcgcgg cgtcggcgtc 120
ggcgtggagg agacaaggag gaggaggaag gtggagctgg tgcaggaggc catccgtggc 180
ttcctggagg agaagaggag cgatggccag ggaggaggag aggagcgctt gacggccagg 240
ctcagggagg aggagcagga gctcctgttg tcgttgctct ccaagttggg cgagctaaaa 300
accgaccccg atccagacat cttggaagaa ccgagctcct tccgcccga ccacggtcac 360
cagcctgcan gaggaagcga acgagcaag gaggtggagc cagctgacat cggccatgac 420
ctgagcagga tcaagag 437

<210> 50635

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-028-Q1-K1-C7

<400> 50635

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 ggttcatcta agtatatggg agcagtaaac ttactggga tactcagcaa tgatcacaca 120
 gaaaatcctg atttctacaa ctggaatata gttgtcataa ggtactgcga cggagcatca 180
 tttgctgggg atgcagaggg gggagatctg gatggaacca aacttttctt cagaggatta 240
 cgtatctgga aagcagttgt agatgaactc atgggaaaag gaatggacgc tgctaaacag 300
 gccttgctta caagctgttc tgctggttct ctagctgcgc tactgcactg tgataat 357

<210> 50636
 <211> 285
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-028-Q1-K1-D1

<400> 50636

cccacgcgtt cgcccacgcg ttcgcccacg cgttcgcca cgcgttcggt ccttcacgca 60
 agccaaagcc cctcggatcg gatccggtct cctccgtgtc ccattcgcca cgcagcggcg 120
 ccacaggaga cggagacgga gatgaagctg tccatccagt cgctcgccag gaagctgtcc 180
 ctgccgtccc cgaagcgggg cggcggcggc atcgctcagg acgggaagaa gaagaagaag 240
 cgctcgctgt cgcgcggcga ggcgccgtcg ttcgcgtcct cttct 285

<210> 50637
 <211> 346
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-028-Q1-K1-D2

<400> 50637

cccacgcgtc cggccaatca gagcgtgttc ctggtgaagt tccagccaac aatatctggg 60
 ttccaagaag ccatgagagt gcatacccat ttctccacca gaaaccatgg caaagaagag 120
 ttccagctga tgaaaggcag caaaggtaag aaggctgcct ccatgatag cctggaagag 180
 ctgctgtatg cgcatattgg ggtcgtggaa gacctggggc tgctggatga ggaacaaaag 240
 aagagatgca aggtcatgag gaagaaggaa attgaggcaa atgcagaggc aactgaat 300
 ttagaagttt attaggtcta gtactaggat ccgaaccatt tgaagt 346

<210> 50638
<211> 350
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-028-Q1-K1-D4

<400> 50638

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tgactgaccg ctcatggcga aggtccacct ctacgtcgcc gcggcctgcg ccgtcgtcct 120
cgcgctcgcc accccggccc tcgccggtga ccccgacatg ctgcaggacg tctgcccggc 180
tgactacgcc tccccggtga agctgaacgg gttcgcgtgc aaggcgaact tttcggcggg 240
cgacttcttc ttcgacgggc tgaagaacct gggcaacacc aacaaccggg cgggctccgt 300
ggtgactgcg gccaacgtgg agaagttccc gggcgtgaac acgctgggcg 350

<210> 50639
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-028-Q1-K1-D8

<400> 50639

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ggtgtgcagc tctatcagat agagagctga cgtgaggtgt gagacgcgga tcgtggagta 120
ctactcagta ggagatcaag aggaaggagg tggggagggg gaagaaggcg atagccgggg 180
aggatggtgc ttgtgcttgc gctgggggat ctgcacatcc cgcaccgggc gcccacctc 240
cccgtcaaatt tcaagtcctat gctcgtgccc ggcaagatcc aacacatcat ctgcactggc 300
aatctctgca tcaaagaagt ccatgactac ctgaaaagcc tttgccctga tctccatatt 360
accag 365

<210> 50640
<211> 329
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-028-Q1-K1-E1

<400> 50640

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ggcgtggagg agacaaggag gaggaggaag gtggagctgg tgcaggaggc catccgtggc 180

ttcctggagg agaagaggag cgatggccag ggaggaggag aggagcgctt gacggccagg 240

ctcagggagg aggagcaaga gctcctgttg tcgttgctct ccaagttggg cgagctaaaa 300

accgaccccg atccagacat cttggaaga 329

<210> 50641

<211> 67

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-028-Q1-K1-E2

<400> 50641

ggactcgtgg ggcaaaaaaa aaaaatataa atataaaata taaaataaaa aaaaaggggg 60

aaaataa 67

<210> 50642

<211> 336

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-028-Q1-K1-E3

<400> 50642

ctgggacttt ctgagaaata tcagaagaaa gttgggtccac tccgatattt tgtggctgga 60

atactgaaat gattatgtat gcctaactac ttatatgaac tggaatatct tccttggcca 120

aaggagatgg ccgtgaatgg aaaaggtaca gatcaagaca aggccacct gtccaatgtc 180

tataccgatg tgatgcacag cagatcaaag aaagaaggaa ttgcaagagc cttcagtttg 240

tccagtattg attctattat gactccaagt cggatgtcgc ttggggatgt tgatacatca 300

agtaatacag tggcaagcac tgaaccatca gactat 336

<210> 50643

<211> 335

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-028-Q1-K1-E5

 <400> 50643

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 cccacgctcg tcaacccttg cacctgggtc cacgtgacct gcgaccgga caaccgcgtc 120
 acccgactag atcttggtaa tttgaactta tctggtcac tgggtgectga gcttgggaaa 180
 ttggagcatc tgcagtacct gcaactttac aagaactgca ttcaatgaac aattccttgt 240
 gagcttggtta atttgaagaa tctaataagc ttggacttgt acaagaacaa cattatgggg 300
 acaatacctg ctgtccttgg aaagttgaaa tcctt 335

<210> 50644
 <211> 319
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-028-Q1-K1-E6

 <400> 50644

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 cgatccggcg ttcatggacg gagcgaaacc cgcggcagca tgctgctcca ccttgcgtgc 120
 gcaggaggca tgcttgtgcg tgtacgcaa agaccccaag tttgcaaat acatcaacaa 180
 cccaacacc gccaaaacct ttacctcgtg cggcatagcc atccccaaat gctaagcaag 240
 cgctctgcgt cgctcgcttcg cttgctcttg ctcttgtgtg taacatatcc agcttatgaa 300
 taaattatgt ggatcagtt 319

<210> 50645
 <211> 387
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-028-Q1-K1-E8

 <400> 50645

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 gttctgaagc tgccggcgag cccagcacag ctgctgcgga tcctgtccta agacagcggc 120

gaccatcacg ccttggcagc ttcaaagacc tgatccagtt cgtcgacaag aaggaggagg 180
agattaagaa aacgatgaaa cgaagatcag gcgagaaaga tagccaagct gcaggattct 240
catacgctca gtcagtggct tcagcatagg acattgctcc aaccatattg aattaggtta 300
tctccaaaag cataggacat tgctccaacc atattgtaaa tagtagtggt gtactgtgat 360
cagaacgaag atcagggttc tcatacg 387

<210> 50646
<211> 342
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-028-Q1-K1-F1

<400> 50646

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gtttccccg gcggcgccaa gtggttcgcc gccgctgccg ccgtggccgc gcgcgccgtc 120
gccttctact gagagaaggg agatctgcac tggcccgctgc tgtaatttat ttgttatccg 180
tggtgagccg ttgattcctt cttttttttt cttttcacca ttttttttct tccatccgaa 240
tatccatatt ccattcggca ttcgattcag taggactggc ggcacatctgtt cgttcgtgtt 300
gctacagggg aagaccgtgg ctccgaccag atgggtgggc tg 342

<210> 50647
<211> 338
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-028-Q1-K1-F2

<400> 50647

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agtttgcaag caaaagatgg atattcaaga agcagaaaca cttgtaaaac agtggcaaga 120
cataaaatct gaagctcttg gccctgacta tcaaactgac atgctacctg agattcttga 180
tggttcaatg ctctctaagt ggaagactt agcgttatta gcaaaggacc agtcttgcta 240
ttggagattt gagctgctaa atcttaatgt tgttcgagcc gagataatct tggatgaaat 300
aggtgctggt gaggcagcag atattgatgc tgtacttg 338

<210> 50648
<211> 339
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-028-Q1-K1-F3

<400> 50648

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acttgtgcgg tgggcaacac cccagctgca tgacatcgac gcattggaca ggatggtcga 120
tcctgcactc aagggctctat acccagccaa atctctatcc cgatttgctg atgtccttgc 180
cctgtgtgtc cagcctgaac cagaattcag gccaccaatg tcagaggtgg tgcaagcatt 240
ggttcgactt gtgcagaggg ccaacatgac gaagaggatg cttgatgggg atacttctcg 300
gcgaccagat gacctggacc aagatttcat atgacaagc 339

<210> 50649
<211> 345
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-028-Q1-K1-A5

<400> 50649

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ttcacaatga ccaaacacat cttttggtcg tccatgagag ccagttggga atctatgatg 120
ggaatcttga ctgtttgcgc ttgtggtctc caagagatgc actcccagct ccgatatcga 180
gtgcgatata ctcgtagcgc ggtctcttgg tttagcgtgg gttctgcat ggtgctatcg 240
gagtcttcga agcagaatct cttaggctgc gctgccggat tgctccttcc gcttacattc 300
caccttcaat actagcctgt gctggacggg tctaccggtt ggtag 345

<210> 50650
<211> 345
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-028-Q1-K1-A6

<400> 50650

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gtacagggct catcctgccg gtcgcagccg tgtccaattc cttcacgaag agaggcgcg 120

agactgggga gctggagcga ggacaaggag acgagggaaa ggatgcagca gctgcaaccg 180

aagcagatgc actgggtgag ggccgactcc tccgacttcg ggggcgaccg tcccgcctcc 240

cgcagcgggc aactgcgggt tatcattggc aagtccaagg tggtcgtctt cggaggattc 300

gccgacaagc gcttntctgc tgatgtttcc gtctacgacg tcgag 345

<210> 50651

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-028-Q1-K1-A7

<400> 50651

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ccgcaacgca caggaggatt ccatggccga caacaccggg acgttggcgg gcggcatcaa 180

ggacgtgccg gggaacgaga acgaccttca cctccaggaa ctgcgccgct tcgccgtcga 240

tgagcacaac aagaaggcca atgctcttct ggggttcgag aagcttgtga aggccaagac 300

acaagtgggt gctggcacga tgtactatct cactattgaa gtgaaggatg gcgaagtga 360

gaagct 366

<210> 50652

<211> 319

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-028-Q1-K1-A8

<400> 50652

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gcgggggacg acgagcacct tgaccacccg ctcgtcgagg ggctcaaggc tctccgccgc 180

cgcgctgccg cgtggggcca cggtcgctgg acgggcgtcg aaccgctcct ctaccttcga 240
 cccttcctcg atgtcgctcg ctccgacgag actggggcgc ccatcacggg cgccgcgctc 300
 tcgtcgttgc acaagatcc 319

<210> 50653
 <211> 358
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-028-Q1-K1-B2

<400> 50653

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 caagccgggc gtcgagcgcg tcgccgtctc cctcgacctc tacaaccagg gatccgcgac 240
 tgcctatgat gtgtcactta atgacgactc ttggccaaca caagcatttg agcttgtcac 300
 tggagagaaa tcgaaaacat tggaaagggc tgacccggg gccactgcta cacacaca 358

<210>
 <211>
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-028-Q1-K1-B6

<400> 50655

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 cctcccgoga tccactcttc tcgagctcta ggggacg 120
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 agaacctgac cggaagagtt gtgggagcgg cggcggaag atggggcagg ccctgcgcag 240
 gctcttcgac tccttcttct ccaccaggga gatgagggtt gtgatgcttg gtctggatgc 300
 agctggtaaa acaacaatac tgtacaggct tcacatggga gagggctctt caacagttcc 360
 tacaagtcgg tttta 374

<210> 50655

<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-028-Q1-K1-B7

<400> 50655

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gtccataccg atggagggtga tcctccggaa gcagaggctg ctgcggaatc cgtccatgaa 120
gcaggccatg ctgttcccgc agcccgccca ggctggggac gccttccacc agatacctgaa 180
cgggctggcg cggaagctgc cgcacggtga ggacgtgttc ctcaagcccc ggcagaaggt 240
gctcaactgg accgagggcc cccgcggcga cctgaagcca tggtaggtgt actggaaaaa 300
aatgccatgg caccgtcagc gtgtccgctg ttcttgtgta cgctacacag cacaaccaga 360
tgggaagctg atcga 375

<210> 50656
<211> 413
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-028-Q1-K1-B8

<400> 50656

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tcacagctcc aacgccgcag aggttcgcca acgcatcgac cagatccaac tctggcaaga 120
aggtagaaaa ttctactttt gttttcgcac aaacactcca acaaaaaata ttgtaccttt 180
gtattcgtac aatccctgtc acagtatcat atctacattt tttgggtcta cctcaatgac 240
aacaaccctc tcaatacctt tgaaggtgtg atgtcaatac ctagaaagct gactgcattt 300
gtttaaaaca ttggtttcgt agatgtggtt atgattttgg cacaaacaga agcgtgcccc 360
agaacaagct anggcccttt gcgaatcaga tgctaattac tgcaattggt ggt 413

<210> 50657
<211> 290
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-028-Q1-K1-C2

<400> 50657

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ctgctctagc tctagcccta gctagtagct agccactcgg tcgtgtagtc atcagccttc 120

tgatcgtcac ccatggccac tgccgaggtc cagaccccca ccgtcgtggc gaccgaggaa 180

gcgccggcgg tggagacccc ggctccgtcc gccgtcgtgc ccgaggaggc tgcccccgcc 240

gccgaggcca aggtggagga gccagctgcc ccggcggaga ccgagccagc 290

<210> 50658

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-028-Q1-K1-C3

<400> 50658

ggcgatgtgg tgcggctcct atttcgtcta tgatgactgt gcagcgatgg tcgctgggcc 60

cttcagccac ccaaatacga aagcctgctg ttcacatggc tagcgttgac ttgaaaggaa 120

aagcatacga tgtattgagg cagaattctt ccaggttttt gttggaagat gtctacagga 180

accaggtcc gctccagttt gaaggaccag gtgccgattc aaagcctatc tcaactgtgcg 240

tcgaggatca agactacatg ggcaggataa agaaattgca agaatacctg gagaaggatga 300

agagcattgt gaagcctgtg tgctcgcagg at 332

<210> 50659

<211> 282

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-028-Q1-K1-A2

<400> 50659

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ggaaatatcc agaattaagg ggctaaaaat acaacccaaa taactcaatt aaaagaatag 120

aaaaaaatgg gactcggttt cacaggaccg gacgtattct tcgtctggca tctcacctat 180

atgttcctct ttggtgttac ctatgtccat ttcactttcc ttcattttcc atatgcttat 240

actgggaaaa ccgttattgt cctcatata atctccttga gc 282

<210> 50660
<211> 325
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-028-Q1-K1-C4

<400> 50660

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cctatacatc agcaatatga gagctggaat actacatgga attggtgaaa tatgagggaa 120
tatgctacaa agaatagagg caaaattctt acaagtttat gttggaagat gtctacagga 180
acccaagtcc gctccagttt gaaggaccag gtgccgattc aaagcctatc tcaactgtgcg 240
tcgaggatca agactacatg ggcaggataa agaaattgca ggaataacctg gagaaggtga 300
agagcattgt gaagcctggg tgctc 325

<210> 50661
<211> 432
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-027-Q1-K1-G2

<400> 50661

cccacgcgtc cgctagcgcc ggcgcctcca cttegttttc ctcaactctct cctgcagctc 60
aggggtccggc ggcgaaggga aggcaagatg tacaccgcga ggaagaagat ccagaaggag 120
aagggccttg agccctccga gttcgaggac tccgttgccc aggctttctt tgatctggag 180
aacgggaacc aggagctcaa gagcgacctc aaggacctgt acatcaacaa tgctatccag 240
atggatgtta ccgggagcaa gaaggctgtt gtcattccacg tnccataaccg nctgcgcaag 300
gccttcagga agatccatgt cagactcgtc agggagctgg agaaggaaat cagcggcaag 360
gatgtggtaa ttggtgctac aaggaggatt gtgaggccac ccaagaaggg ttcagctgtt 420
ttgcgccctc gc 432

<210> 50662
<211> 394
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-027-Q1-K1-G3

<400> 50662

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ggccgtggta agaagctgca agaggaatgg gctgttccac tgaaatctgt ggaggacatt 120

agtgagcgct tcacaaactt ctgtcaaggg aaactcacia gcagcccatg gtcagaattg 180

gacggtcttc aaccagagac aaagattatc gatgaccagt tgggtgaatat taaccagaag 240

ggtttcctta caattaacag ccaacctgct gtaaatggag agaaatccga ctgcctact 300

gttggttggg gtggtcctgg aggctacgtt tatcagaagg cctacctcga attcttctgc 360

gcaaaggaga agttggacca actaattgag aaga 394

<210> 50663

<211> 333

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-027-Q1-K1-G4

<400> 50663

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tggggtaaaa atgacttggg ccggaatgga tttgtggacc atattaatac gacaaaggac 120

tccaccgact acctatggta cacaacaggt tttagtgtgg atggaagtta ctctcaaaa 180

gggagccatg ctgtccttac atacgactc caatggccat ggtgtccatg ctttcttgaa 240

taatgtgctc ataagtagtg catatggtaa tggctcacia tcaaaattca ctgtcaaaat 300

tgccattaa cctgaggact ggaaagtatg aac 333

<210> 50664

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-027-Q1-K1-H4

<400> 50664

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ggcgggctcc cccactggct cctcgcgcc gccggtggtg cctatggagc ttcacgccgg 120
 caaccgcgac cgctcgtcg ccgcgctccg cggccacatc tccgcctccg cgcgcccgt 180
 ccacggcctc gtactgcttc agggcgggga ggagaagaca cggtagtga ccatcacct 240
 cgagctcttc aggcaagaga gctacttcgc ctatctcttt ggagtgaag aaccagggtt 300
 ctacggcgca attgacatcg cctctggaca gtcaattttg ttcgctcaa gattgccagc 360
 tgactatgct gtttggatgg gtgaaata 388

<210> 50665
 <211> 354
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-028-Q1-K1-A1

<400> 50665
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 agacaggcat aactaagggtg ctggggcggg gcccaaata ccgattaaag ctaggttttt 120
 gtgtgacttg ggaacacaac accgcggaac cttcgttaagg acgctaagct atctgttcct 180
 cgaggaaatt acctgtgacc atagaaatat gattaaagat catatgctta ttattatggt 240
 gttgttattg tacatcatat agtcgcgtac agttttgaaa ggaacattag tcattagttt 300
 atattgtata cttgtaaaac ttcctcacag ggttgttttg gttttcattt ctac 354

<210> 50666
 <211> 365
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-027-Q1-K1-F5

<400> 50666
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 caatcaaaca aaaaaagaaa caagaaacaa acaaacacat caaaatacgt agaccaacca 120
 aaagacgcaa aaacatgaag agatacacat acacacaagt ggacgcccac tctaaggagc 180
 caacataacg ccacggacgc agtgctctac cactacatga actggcgag caaattctac 240
 tccaagggtca ccctttatca agtcaaggat ctgaaaaacc cccagggtgac caaactaaat 300

gccttaccag acttaccagt tcataggcct gagtatggca ctcacaaggg cagcacacac 360
acctt 365

<210> 50667
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-027-Q1-K1-D5

<400> 50667

ctcatgtaca atgtattagg aacgcataat tggctgaact gagagctaac tttgagaaga 60
agctgtcaga cgcaatttct gggcctgtac aatccatact ggaaactggc gagagagact 120
cctgggcatg cattaggaga ctatataggc gtgagattga aaatgctgct ctttcattct 180
cagcttcctt ttctgagttt gacctagacc aaacaatttc caataagatg gtctcagatt 240
tgaggggaata tgcaagaagt gtagtagaaa ctaaagctag agaagaagct ggaaatgttc 300
tgatgcgcat gaaagaaagg tttttcactg tgttgagcca tgataaggac tcgatgccaa 360
ggatcatggat gctagatgag gatatccgta caatcactag agaagcacgc ttaggggctt 420
ta 422

<210> 50668
<211> 234
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-027-Q1-K1-D6

<400> 50668

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cttggacccc taaagatcca gcaactgacc tgaaatatag gcacctaaca tgctccgaag 120
caggatccac caggtgatga attggaagct ttatgctcag caaattgtga atgccactag 180
agctatcaag tcaacgaggg tcaggcaagc gaaagaggag gcttatctag aaat 234

<210> 50669
<211> 435
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-027-Q1-K1-E2

<400> 50669

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ggcagctcga gagagagaga gagagaaaga tgtcgtggtt cgggcaccac caccacaacc 120
agccgggtcc cccggcgctc ggccccaacc aggtgttcaa gatcttctgc cgcgccaacg 180
agaactactg cctggccgctc cgcgacggcg ccgtcgtgct ggccccggtc aacccaag 240
acgaccacca gcactggtac aaggacatgc gcttcaacac ccgggtcaag gacgaggaag 300
gcatgccggc gttcgcgctc gtcaacaagg ccacggggct cgcaatcaag cactcccttg 360
gccagtccca cccggtcaag ctgcgcctt tcagcccgga ccaggaggac gcgtcngtgc 420
tgtggacgga gagca 435

<210> 50670
<211> 262
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-027-Q1-K1-E4

<400> 50670

aaaaa caaa aatagattaa aaaaaaaaaa aaaaaaaga caaggagggc 60
tttaaaatcc aagtacgaga gcacagacta gccaactatt agatgattat ttagcgctac 120
ctaacttcat ttcaccggcc tgtgaatcac aacttcatgc actggtaaaa cattctcgac 180
actgatctct atcggttcac atactatatt catgtcgata gtttgcgac taacgacaag 240
gcccgaata ttcattcttc ct 262

<210> 50671
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-027-Q1-K1-E5

<400> 50671

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cggcatccgg ggcccgcgg ccttcttctt caagtctgac cgctcggcg tcagggtgcc 120

caccatcatg gtctcgccgt ggatcaagaa gggcacccgtc gtcgggccgcg cctcggggcc 180
cacggacacc tccgagttcg aacactccta cattccggcc accatcaaga agatcttcaa 240
cctctcgtcc gatttctca ccaagagaga cgcgtgggcc ggtaccttcg accacatctt 300
caccgagctc gaccaaccaa gaacagattg cccagagaca ttaccggagg tgccatttga 360
gagaccaact ccacccaaag aacacggctg gctctcagat ttccagcggg agctcg 416

<210> 50672
<211> 329
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-027-Q1-K1-E6

<400> 50672

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agcgagcagt tcacggccat gttccggcgc aaggccttcc tgcactggta caccggggag 120
ggcatggacg agatggagtt caccgaggcc gagagcaaca tgaacgacct ggtggccgag 180
taccagcagt accaggacgc gacggctgaa gaggaggagg agtacaagga gggagatgag 240
gtggctgcct gatccaccgg cacattgtgg ggttgtgcac attgtggggg tgtgttatta 300
ttgttgctct tcattcgggtg tttaaaaat 329

<210> 50673
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-027-Q1-K1-E7

<400> 50673

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tgccagtggc ttacgggtgc ttgtctatcc aactatttca tgaaattggg cacttttttg 120
cagcatttcc aaaaaatgtt aaactgggaa ttcctttctt tattccgaac ttcacccttg 180
gaacttttgg tgcaattact cagttcaagt ccattcttcc ggatcgaaag acaatgtttg 240
acatatcaat ggctggctcct gtggctggag ctgcactttc cttttcaatg ttctttgttg 300
gcttattact ctcttcaaat cctgttgggg caagtgattt agtggaagta cctagtcagc 360

tggtccaggg ttcattgttg cttggactta ttagtagagc aacgcttgga tac 413

<210> 50674

<211> 169

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-027-Q1-K1-E8

<400> 50674

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ccttcgggcg cctggacgcc taggcgacgc ctttaaaaca agggctcttct ctgtattaaa 120

tattttctga tgtacagtag ctaccttggt aattcatgcc ttcaacatg 169

<210> 50675

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-027-Q1-K1-C7

<400> 50675

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ccatcactct ggggatccga ttgatcccca gttggaaggc atcttccaca actactctgt 180

gaagcgccag atcatcaatt ctggacccat cattgcatcc cagttgctgc ttgtggatga 240

agtgatcagg gcatgccgca acatgaggaa accgacttag atttttgtcg ccacctagcc 300

gagacttatt cgttctacct tttgttttgg ttctgtgcct agtagtgatc tggatgatac 360

gtctgacttg agttgggtccc atttcacgaa gcacgtcgca ttcgcttttt ttttgtggga 420

ttactg 426

<210> 50676

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-027-Q1-K1-A5

<400> 50676

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acaggaggga tggaggaagg agacggtcga tcagagtctg agaccgaggg ctatccacca 120
ccgcagcgac gagcgggagg agatgaagat catcattgac acggatcccg gcatcgatga 180
cagcgtggcc atcctgatgg cattccatat gccgggcgtc caggctctat ggctcaccac 240
catcttctga aactgcacca cagagcatgc cacacgcaac gccttgatcc tgtgcgagaa 300
ggcaagccat ctagagggtcc cagtagctga cggcagccat gagcctctca aaggaggaaa 360
gccgcacgtt gctgacttcg ttcattggacc tgatggcctc gggaacgtag atcttactga 420
tc 422

<210> 50677
<211> 388
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-027-Q1-K1-A7

<400> 50677

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ccctagccac cgggcctgcc ctggtccgac tgcgcagacg tgctcgtggg atcctccggc 120
ccctccttcc cctacatccg cggctgggtca ttcaccttct actcgggcgc tgctatgggt 180
tctgtttagg aacatcttca acccaagggtg tgcgtgcata ctgacacctc cgttgctgct 240
tgagcagatc ctgccctggc tcttctatca caaggctcgtc ggcgtctcgc agttcctgct 300
cttcgtggag ggcaaggcgg ctaaacccaa tgtcgcggga gtcctcgagt caattcctgg 360
ggttaaagtg gtgttccgaa ctaatgat 388

<210> 50678
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-027-Q1-K1-A8

<400> 50678

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aagaaagaaa gaaaatttcg aggcgcagaa aaaagacggc tttgatctct gctagtgtgg 120

tgtggtagtg tgtgtcttcta gtaagtaagc gagccagggg tcaagaagca gagagctgct 180
ctgtctctttt tgtctctttgc aagaatggct tcctccagcg ggagcgggag ctcggtctcc 240
ctctcggcgg caacggcggc cctggccgcc gcggcgggca cggaggagga gctgcgcgcg 300
ctcatggagc agcgcgcgcg gaagcggatg ctgtccaacc gcgagtcgcg gcggcgggtcg 360
cggatgcgca agcagcgcca cctcgacgag ctgaccgcgc aggcggcgca cctgcgccgc 420
gagaacgcgc acgt 434

<210> 50679
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-027-Q1-K1-B4

<400> 50679
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ttatcacctt agctcctgca acaatcatca gccctattac aacagttacc tcaggtgcat 120
ttattggcac aaaacatcag ggcacaacaa ctacaacaac ttgtgctagc aaaccttgct 180
gcctactctc agcaacagca gtttcttcca ttcaaccaac taggttcatt gaactctgct 240
tcttatttgc aacaacaaca actaccattc agccagctac ctgctgcta cccacagcaa 300
tttcttccat tcaaccaact agcagcattg aactctgctg cttatttaca gcagcaacaa 360
ctactaccat tcagccagct agcttgtgtg agccctgcta ccttcttgac acaaccacag 420

<210> 50680
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-027-Q1-K1-B7

<400> 50680
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cgtcggcatc aacttcgagg aggtcgactt cgacaggacg gacgcggtgg acaaggcat 120
ggacgacttc gacacgtccc gcaacgacgt cgtcgaggag gaggagtctg tgcaggggat 180
gaggaagtgg ctggacgagg ccaggcgag cgtgcccgtg ggcggcgctt tctccagcaa 240

gttcatccac gagtaccacg agaggacgag gcaggagcac gacgagctgg tcgacaggtc 300
 cgacgaggcg gtggagagcg tggagaaccc cgggtggtgc atagccaagg ccgtggcgct 360
 gctgctgctg ggc 373

<210> 50681
 <211> 426
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-027-Q1-K1-C2

<400> 50681

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 agaaatatga ggacaagggt gatgcttttg gtgagaaggc tatgactgaa ctgaagaagt 180
 attatgccat tttcgatgag aagtgcctat cgaagattcc aaagggcccc ctttaaggata 240
 agaagcacta gattggtagt aaggtatttg ctatgaatca acatctacat tatgtcacta 300
 gctgtcacct ctttctctga aggatggtgc ttggtcctgg tctctagttg atagtatata 360
 atctgtatgg gcaactttgg tgtgactgac agtctgctga aaactgttga tcttggtttt 420
 ggtttc 426

<210> 50682
 <211> 354
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-027-Q1-K1-C5

<400> 50682

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 tcggaaggct ggtggccagg gtggccctgc agagcgacga cgtcgagctc gtcgccgtga 180
 acgaccctt catcagcacc gattacatga cctacatgtt caagtatgac actgtgcacg 240
 gacagtggaa gcaccatgag gtcaagggtga aggactccaa gacccttctc tttggtgaga 300

aagangttgc tgtgtttggc tgcaggaacc ttgaggagat cccatggggg tgg 354

<210> 50683
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-027-Q1-K1-A4

<400> 50683

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tgggcacacc aaagaggaca gcaatgctag gaacatgacg atgaccaaga cgagggcatc 180
ggccaacata cttgttagcc gtaatgacga cgggccatgc tatctagatt cgggtcttaa 240
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ttgtcaacca tcatcatgaa ttcatgatac tgcggagaca tcatgatact gcggagacag 360
acggcgagag atgaggctag ctagatgctg tttcaccaaa atattatgta acacccaaat 420
cttccat 427

<210> 50684
<211> 161
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-026-Q1-K1-G8

<400> 50684

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actaaaaaaa aaaaaggcag gagaaataaa acatggaaaa actaccaaaa tataacgacc 120
aatctcaaat ctactacca ctctttctat cctcttccat c 161

<210> 50685
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-026-Q1-K1-H1

<400> 50685

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gcgggagatg ggcgatgcc aacgaagcag gcatgttgag cagtcaactcg cggaggtggc 120
agctcagatc gagtctgtga cggagaagat cataatggag gaggagaagg tgaagaagtg 180
gaaagcggag aacctgagga ggaagcataa ctacgtgcc ttcctattca atttcctcaa 240
gattctcgag gagaagcagc agctgaagcc cctgatagag aaggcgaagg cgaagcagaa 300
gtccacggc cccagctagg tgaaaagccg caatgcacct acgtactgtc tcttttagtt 360
ggggttcctt gtaagattgg agttcgcgta tatgctttct ggttttagtt taagacaa 418

<210> 50686
<211> 350
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-026-Q1-K1-H2

<400> 50686

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atgagtacaa agcgtgtgcg gtcattggtg ttacgcaatg catctacgcc gctctagcgc 120
tcttgtccaa tgcggcggtt accggcggtg tgagccctct ggtgttcgac gtctacaggc 180
aggccgttgg caccattgta cttgtccccg tcgtcatcgc tgtcaacatg aagaagatta 240
atgagatgac gacaggcctt ggactgaccg gcttgtcgct ggtcttactc gtcttccttg 300
tcggggcaac tgtgaaccag tgcattgtact accaaggggt gaatctgggc 350

<210> 50687
<211> 433
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-027-Q1-K1-A2

<400> 50687

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cccacccac cgtccctgcc ctctacgac tgcgcagacg tgctcgtggg atcctccgcc 120
ccctccttcc cctacatccg cggttggtca ttcacctccg actcgggcgc tgctatgggt 180
tctgtagagg aacatctcca acccaaggtg tgcgtgcaga cgagcaccta cgcggggcct 240

gagcagatcc tgccttggct cttctatcac aaggctcgtcg gcgtcgcgca gttcctgctc 300
 ttcgtggagg gcaaggcggc gaaacccaat gtcgcgggag tcttcgagtc aattcctggg 360
 gtaaaagtgg tgtacagaac taatgatctt gangagcggc aggcacggag tcgaatctgg 420
 aatgagactt ggc 433

<210> 50688
 <211> 399
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-026-Q1-K1-E2

<400> 50688

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 ctctctctcc tggctctctc tgcgagcgcc acctccacgc atacaagctg cggctgcggc 180
 tgccagccac cgccaactgt tcctctaccg ccctctgtgc atctgccacc ttctgatcac 240
 ctgccacctg cagtgcctct tccaccgctt gtccacctgc cgactccagt ccacctgcca 300
 cctgctgtcc atgtgcctcc tgctgttcat ctgccggcgc caccatgcta ctaccctact 360
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<210> 50689
 <211> 419
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-026-Q1-K1-E3

<400> 50689

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 aagggtgagg ccctcgacgc cgggtgacat gagccactc ccgtcccca ccaaggccat 180
 gacaccctgg cagccgcagc cggtcacggc ctcccagggt ccgtcgcccc tgagcatgac 240
 tcataagccc ccggtcagcg gtgccataat cggttatgcc cctacccccg atgccgtgct 300
 ggcgcccgca gcctggggca tggccatgct cgcgcccgtc atgatgggtg ctgcagcgcc 360

tgccaagccc atggtgatgg cctcatcggg caccggccgc ggcaacatca gcaagcgga 419

<210> 50690

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-026-Q1-K1-F1

<400> 50690

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agtgagctcc aaagtttatt tgtcatacat gggggaagct tacaaaggta cactgatacc 120

actaattatc ttgggtcaaa ccatgttcca agttcttcag attgcgagca actggtggat 180

ggcatgggca aaccacaaaa cagaaggaga tgctccaag acagatagtg tggtccttct 240

ggttgtttat atgtcccttg cctttggaag ttcactatct gtgttcatga gaagccttct 300

tgtggctacg tttggttttag cagctgcca gaagcttttt ataaaaatgc ttaggtgtgt 360

ctttcgagct ccaatgtcat tctttgacac caca 394

<210> 50691

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-026-Q1-K1-D1

<400> 50691

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gtattgagcg ctccccccgg ggggttcaccg gcggcggcaa cgacggtgaa aactacatcg 120

ggtgctagct ccgacggtgg tgcgtgccct gttgacgata gggcgcgcggtg tgcgcgggca 180

gcttgtaggc gttcgatcgg ccatgtaggg caactatata tctttggcag gtctccatca 240

tccttccttg gagagaagat gcatggtaat ggagtgcgtg tgtatgtatg tgtatgcccc 300

tggcgcgcgcg gcgcggctct gggcgaatca cagtagagat gcaatatcat gtatccagta 360

tctttcttac aacacaaaca gtgagaaatt attagtcaag tgtgcattgt ggtgcaagca 420

ct 422

<210> 50692
<211> 454
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-026-Q1-K1-D2

<400> 50692

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gtggtgacac atggatgaga gttggcatat ggctgctgat ggggtgttctc ctgtacattt 180
tctacggacg aaccacacgc tccctaacag atgtcgtcta cgttccagta acgcaagctg 240
atgagatgta caggagttca tcaggatatg tatcatagaa aagaacagtc gcagttactt 300
caaggtggct ggtcattcag ttgtagataa ttggttatca accaggaaag aggggaattg 360
gctgttattt atttcatgct ttggcaacaa gatctcgtgg atgcaacttt gcaagatata 420
tatgatgttc actaacctgg tcaatttaca catt 454

<210> 50693
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-026-Q1-K1-A8

<400> 50693

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gggaacctag gtcacccctc cttatatcgg ggatgaagag cagcacaatc gtcgcgcttc 120
tattggctgc tgccatactg tcctcactgt ctccatgcta cgaagcctgc tgctgcatca 180
cgaaacccat aaagtcaccg tcgtcgccga gaaggccata cttctcgtcc tattccgagg 240
accaccagaa ctgcctcttg atctgtacct ccaagggttt caaggactgt ggctgggtgtg 300
actaaagcgt gtagcacaaa gtgtgctgct gctcccatta gaaatataat agcgtatgtt 360
atgttgatgc atatatatat gcatcgcca tctacctgtg tgggtgcaaaa ttctgaataa 420
aatcttgctt ttt 433

<210> 50694
<211> 304

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-026-Q1-K1-B2

 <400> 50694

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 agttgctagc ttcacttgcg gatgcacgca cgaaggcatc ttgttacctt ctgtgtatgc 180
 ataacccttg ttgtcaaagt ctgatattaa tagctgaccg tttgaagaca aagggacgta 240
 ttggattcat gcaatagcgt aatcttgaaa acaaaattct gaataaaaat tggctttttt 300
 ccgg 304

<210> 50695
 <211> 369
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-026-Q1-K1-C1

 <400> 50695

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 aagccacttg actaaggctg tattcgcgaa ttcatacatc tttgaagtaa ttaaattccc 120
 aggaggaata acaattatcc ctccacaaac tgcttttctt ctacataatc ctcatgcctc 180
 atttaatat actctgaact atccgatcta caaattacaa gacaggactt atgagtcaaa 240
 ggatcaaatg gatgctggac tactactcaa tccatatgag aatctgtata tcaaattgac 300
 aaattcttaa tggtcgacga ttcttctctc aacaatcggt cataccttca tagacctcta 360
 agtctgaaa 369

<210> 50696
 <211> 310
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-025-Q1-K1-H1

 <400> 50696

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aataatggcg gccgaagagg gtgccgtgat cgcgtgccac accaaggacg agttcgacgc 120
 ccgcatggcc aaggccaagg agcagggcaa gctgggtggc atcgacttca tggccccctg 180
 gtgcagtggg tgccagatga tggccccggt gtacgcggaac tgcgccagca agtacccttt 240
 cgcggtcttc ctcgaggtct acgtggacga actgctggaa gtcgcgaaga tctacggcgt 300
 ccatgtgatg 310

<210> 50697
 <211> 365
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-H10

<400> 50697

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 agagagacct ccaggcaggt gatcgagaag tactactccc gcatgaccct cgacttccac 120
 accaacaaga aggtgctcga ggaggtctcg attctgccct cgaagcgcct ccgcaacaag 180
 gtggctggct tcagtaccca cctgatgcgc cgcattccagc gcggcccagt ccgcggcatc 240
 tcgctcaagc tgcaggagga ggagcgcgag cgccgcatgg acttcgtgcc ggagaagtcc 300
 gcgctcgagg tcgaagagat ccgcgtcgac aaggagacca tggagatgct cgctgccctt 360
 ggcat 365

<210> 50698
 <211> 207
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-H12

<400> 50698

ttcatacttt atgacaaaaa aaacaaaaaa aattaaaata aaaaaaaaaa aaaaaaagga 60
 aaagttaaaa ttaaaacggg gtaacgggtc cccattatac aacctcaacc atgcgacctt 120
 atactcgctc tatagtctct atctaccatc tctatgttaa gcctcaaccc ttcaagctgc 180
 cctacttcaa atacccttaa ctcccc 207

<210> 50699
 <211> 231
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-025-Q1-K1-H3

 <400> 50699

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 cgccgtggaa gctgggttaa gtcaagggtc ggcttgcata catagagaga tgatgcccc 120
 tgaccctcac aagcttctgg aaggatgcct tattgctgga gttgggttga gggcattagc 180
 tgcttacatc tacattagag gtgaatactt gaatgagcgt gttaaccttg a 231

<210> 50700
 <211> 425
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-025-Q1-K1-H5

 <400> 50700

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 ccgatcgagc tgccagccac cgtcaccagc tcatgtacac gacgtcgctg catctgccag 180
 ctccgattca cctgccacct acagtgcac tcccaccgcc agtccacctg ccgccgaccg 240
 tccacctgcc aacgacgggc catgtgccgc cgcccgttca tctaccgccg acaccatgcc 300
 actaccctac tcaaccacca cagactcagg ccttcattcc cagccacact catgcccgtg 360
 ccaacaaccg gattcagacc cgtgccagct gcacggaacc tgccgcgttg gcaacacccc 420
 gatcc 425

<210> 50701
 <211> 430
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-025-Q1-K1-H6

 <400> 50701

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cagggccagc aagctggtcg cgctcgtcac caccgtccat ggggggaagg acgccactag 180
atacgtggtg gcgccaacg gcatcacacg catcggcaag gcggcagggg ccgcggccgt 240
agtgccgtgc caccgatgc cgtaccgta catgggtccac tactgccacc agccggcgga 300
cgtggaggcg ctccgtgttg agctgaccgg gctgccggag acggtggcgt gacaaccgcg 360
atcgccatgt gccacgcaa caccatgaac tgggacgac gctacttcca aatgctgaac 420
gtgacgcgcg 430

<210> 50702
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-H7

<400> 50702

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tcatgcctgc ggcacctgcc agcaggcgac gaacgacttc gctgcctact cgctcgggggt 120
cagggccagc aagctggtcg cgctcgtcac caccgtccat ggggggaagg acgccactac 180
atacgtggag gcgccaacg gcatcacacg cataggggaag gccgcagggg ccgcggccgt 240
agtgccgtgc caccgatgc cgtaccgta catgggtccac tactgccacc agccggcgga 300
cgtggaggcg ctccgtgttg agctgaccgg gtgctcggag acggtggcgt gacaaccgcg 360
atcgccatgt gccacgcaa caccatgaac tgggacgac gctactttca aatgctgaac 420
gtgacgcgcg 430

<210> 50703
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-H8

<400> 50703

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ctgcaccagc tcggcggcag gatgctgcag cactcgagca gcgccaacga gctgctccta 120

cgccgaaagc tggaggaaca gcagcaggcc attgagctcc agagccgtcg cctcatgggt 180
cttcagcttc tcgaccttaa ggctcgcgct gctgctgcag cagcatcgcc actgccgaca 240
ccaattggcg atgccttcgc gtccagccaa cctgtgagca ccaccgcagt cgagtcgcca 300
tcgccgccag agtccgggca gcagctgctc aagctttgag gagcggattt gctctggagg 360
ggaaggtcaa cgggtggtgat aaggaggaat ctggtcgcga ggcgagccca aacgccgatg 420
atagc 425

<210> 50704
<211> 412
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-026-Q1-K1-A1
<400> 50704

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gaacaacttg gagttcttag caaccctgac ttcaaaatta ctgctcttat ggatcacttg 120
gctatgataa ctgtgcaatc tgaaaatcaa agtagaaaga agacttttga ctgcaagcct 180
cttgggtgtca tttggggtca gttccctgag tactacaacg aaaagaacac cataatgttt 240
gatgatctaa gaaggaattt cgtcatgaat ccacagaacg gtctcgtgat caagccattc 300
aggaaagcgc actcgaacag gcatgatgat cagcagctgg taaagcttac acactacctg 360
ctttcgatcg gagacctaga agatctcagc aagcttgacc acggttaatg gg 412

<210> 50705
<211> 219
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-026-Q1-K1-A10
<400> 50705

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gttacacatt atttatcttc taaactttta gtttcctcac ataactacca atatttacca 180
ccttttttac ctctataaat attttcgcta tatccatca 219

<210> 50706
<211> 271
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-G9

<400> 50706

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tgcataacca tctttttctc tatctgatct ggcttatctc cagcgccacc caacttaacc 180
ccctttcact acatgcccct ttgattact gccttcatag cgattactcc ctatcccctt 240
ttcgtttctc ccagtatcaa ttactcttat c 271

<210> 50707
<211> 158
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-F3

<400> 50707

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ggcgaatccc cttctttggg gtcattgagc ttcgtcaagg cgcagctcat ccgcctctct 120
gtattcgcca taggagagcc tacaagcatg ggaggcct 158

<210> 50708
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-F4

<400> 50708

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ccagacacca ccgtttcacc taccgcctcc gttctatatg ccgcctccgt tctatctgcc 180
gccgcagcag cagccgcagc catggcaata cccactcaa ccaccgcagc taagcccgtg 240

ccagcagttc ggatcctgcg gcgtcggcag cgtcggcagc ccgttcctgg gccagtgcgt 300
cgagttcctg aggcaccagt gcagcccggc ggcgacgccc cctacggctc gccacagtgc 360
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<210> 50709
<211> 425
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3079-025-Q1-K1-F5
<400> 50709

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gtcggcatct gcgggtttca gctcttccgg aacatcactg gcaaccggga agtcagggtg 180
aacaaggcag ggagggcagc tgggtgtgctt gagaaccatg aggaggggag acgttacgcc 240
atgcatggcc taagaagctt tgtgcacgac aagactcctg agatcatgcc tgcagttaac 300
aagttcttca ctgaccctaa gtgaagcaat tgttgattgg catactacta ctactacttg 360
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aaagt 425

<210> 50710
<211> 434
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-025-Q1-K1-F6
<400> 50710

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tcggaggcga acacccgcat ggcggcggtc ggcggcggcg catgagggaa ggtatccttc 120
aagatcatcc tcacctccga cccaagctc cctttcaaag tggtcagcgt gcccgaggcg 180
gcgcccttta ccgcggtgct caagtacgcc gcggaggagt tcaaggtccc gcccagacc 240
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tttctgaaac atggttcgga gctgcgtctc atccccctcg cgatagagtt ggagctgtag 360
 tcatgtcttc cggttagagg atatatacag tccaatgcat aatgagcata acttgagaga 420
 aataaagctt tgat 434

<210> 50711
 <211> 226
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-025-Q1-K1-F7
 <400> 50711

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 agaaaaaaaaac aaacactgta aaaagaacaa aaatacaaaa aaaacaaaaa caaaaaaata 120
 aataaaaaaaaa aagggtcacc tattttcaaa aacctggcct tactttctac agcttgctct 180
 ctgtgaaacc ctttaccttg cccctctaata tcactttgtt agccca 226

<210> 50712
 <211> 438
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-025-Q1-K1-F8
 <400> 50712

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 ttatgaaatc ttgcagtata ttgcctcaca gtcaccgact caaagacagg cacatcagca 120
 gcagcaacgc ccaccaccgc cacggactcg gcagggtcaac cctgcacctc cacctattcc 180
 cgcaccctcc gcgcctccga tgccaccaca gcttgcccaa gcccaagttc ctcccactcc 240
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 tgctcctgaa gccaccgnca ccaacggtct tcaggaacca ccgaaaccat gcaagtcgac 360
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 gcgatccggc tgacccgg 438

<210> 50713
 <211> 363

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-025-Q1-K1-F9

 <400> 50713

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 aagaaatctg taacttatgc tgaaagtcac gatcaagcat taatcgggtca tcagactatt 180
 gcgtttttggg tgattgaaca atgatatgta ttatttcatt gccctccata gacctttaac 240
 ttctaccatt gatccatcga tagcattaca taagaagatt tcacttatca caatggggttt 300
 aagatgataa ggctatctta atttcatggg aaattaattt ggacatcctg aatggataga 360
 ttt 363

<210> 50714
 <211> 321
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-025-Q1-K1-G1

 <400> 50714

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 aagacgatca ggacagagtt tagagattgc actgtcatca ctgtcgcaca ccgtataccc 120
 accgttatgg actgcgatat ggtacttgca atgagtgacg ggaaagtagt ggagtagcac 180
 aagcctacaa agctcgtgga aaccgaagga tctctcttcc gtgatcttgt caaggagtag 240
 tggtcataca catcgaattg aaatatctag gagaaactgt gacaatcaca tgttcactcg 300
 ttgcaatctc ttaaaaaaag a 321

<210> 50715
 <211> 416
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-025-Q1-K1-G12

 <400> 50715

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 gaaatgcata cataaaagat atgcttacca gattgtgcta aaaaccttgg atttgctgcg 180
 atcgatgcct tcccttggtg atgtggatgt tccaaacggt ggacatttta cagtttgcg 240
 tgatgtgcat ggccagtact ttgatttgct caacatattt gacctcaatg gccttccatc 300
 agaagaaaat ccttacctct tcaatggcga ttttgtggac cgaggatctt tctccgttga 360
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<210> 50716
 <211> 435
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-025-Q1-K1-G3

<400> 50716

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 gcctcctgga cagctgcttc ctgtcgtgga ttgagcagca gggtgacgcc tcctggaagc 180
 ggtggttcac ttcggtccag aaaatcgaag accagaaggg taaggtttga tttgagtcac 240
 gcatggttcg ttgtctggat cagtacctgt aaactccggt tgatcaagga agataattgc 300
 gatgccagca agggctgaac atntggcgtc gctaatttag agaattcttt ttagtctttg 360
 acgggatgaa acggttgccg agttgctctg ttaactgaag tgctgtgtt ttgccgatgt 420
 gttaaacttt ctttt 435

<210> 50717
 <211> 318
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-025-Q1-K1-G4

<400> 50717

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 tgctaaactg gttgtgccct gcaatgtagc ccggctagaa gctcttctgt ttgaagcgaa 120

aagtgaatgg gctgaagctg aaagagctta cacgcaaattc ctggaaatca atccatttga 180
ccagattgtc cacaagcgga cgcgtgggcg gtgagaacga aatccagcat tcttggtgca 240
caacacagca caggcagcag cgtacctaga atgccgncgt cagccggcgg caaccctgcg 300
agcgacagcg ccgcgggc 318

<210> 50718
<211> 430
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-025-Q1-K1-G5

<400> 50718

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ggcgagaagt tccccgacga gaagtctgtg ggcgcaagca caccgncccc ggtgtgctct 360
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<210> 50719
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<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-G6

<400> 50719

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gtggaagaga aatctgcgaa tatctgttcg gatgcgtttt gcatatgcat agaaggcata 180
gacaaggaac cccttatgcc tttttgtatt tgtcatgttc ttccatggtg tacatataga 240

tcagtgtgca atgagaaatg tgagcgggta atgtacggct ttccccccca aaatattact 300
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ggtattagca aaaa 434

<210> 50720
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<212> DNA
<213> Zea mays
<223> unsure at all n locations
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gccgctgcca tctcctccgc cttctgattc ccactcnc cactccccaa ccctaacctn 360
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<210> 50721
<211> 430
<212> DNA
<213> Zea mays
<223> unsure at all n locations
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<400> 50721

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tggtatatat atcttggccg gaagaggaat tttgctcagg tttttggaaa tgacagaaaa 180
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cagtgtcctc gtcagatacc tcagtgttgg gaacatctac tgatacaact gacagcattg 360
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attcatctgt 430

<210> 50722
<211> 427
<212> DNA
<213> Zea mays
<223> unsure at all n locations
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<400> 50722

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acgagttcgc ggacctgtac atcgtcaagt ggacgtcgct gatgatcccg cccatcgtga 180
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tcccgcagtg gagcaagctg ctgggcggcg tcttcttcag cttctgggtg ctggcgcacc 300
tgtaccggtt cgccaagggc ctgatggggc ggaaaggggc cggacgccga ccatcgtctt 360
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gtcccag 427

<210> 50723
<211> 432
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-025-Q1-K1-D6
<400> 50723

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agacacttct tgcaagagct gtagcaaata ggactgatgc ttgtttcatc cgtgtaattg 180
gaagtgagtt agttcagaag tatgtcggcg aagggtgctg gatggtcagg gaacttttcc 240
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gtgctcgttt tgatgatggg gtgggtggcg acaaaatgag gtgcagcgta caatgttgga 360
aatagtaaac cagcttgatg ggtttgatgc aagagggaac atcaaagtcc tcatggccac 420
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<210> 50724

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-D7

<400> 50724

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tgtgttgtaa atgggggtctt ggaactgatt tcttctgaag ctacctccac tgagcgaact 180
ctaattgtcc catacatcac aagatcgta agctatcatc atggaacgga acatgcaaca 240
aaagcatcga ctgtacttca tgggtgctgaa ataggggcaa caactgacta tactcacctg 300
ttggttggtg ggaccactaa acctccttga catccttgca aatacgtagt gaaccaatat 360
tatgtttgct ggaaatggtg cgtgtgttga aagtgcctac agttcttctt gtcacttctg 420
g 421

<210> 50725

<211> 348

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-D9

<400> 50725

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ctccacacta tatatcaaca tacaaaaaac ctgctctgat tatgaaccac tcgctcaaca 180
actataaatc tcccacttat cattattccc atccacaatg ctagacgccc tcgtaaaaaa 240
taccagacct ccaattgacc tattatatgt tatctagtca aataaaagcg ccattatatt 300
tcacaaaaaa acatcaaaat aaaaaaaca cggccctctt aaaagatc 348

<210> 50726
<211> 318
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-E1

<400> 50726

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tgtcgaaggc gtgctcgatt gtggcctcct cctcccgcg ctgctcctcc tccgccgccg 180
ccccacgat gagggggcag ccgtccttgc tgccaagcgt gcggaagcaa tggcccggga 240
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tgggtcgtgt tttttggc 318

<210> 50727
<211> 395
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-E2

<400> 50727

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tacgaagccg gcggctgcat cgggaaacc aagaagtcac cgtcgtcacc gagaaggcca 180
tacttctcgt cctattccga ggaccaccag aactgccgct tgatctgtag ctgaagggt 240
ttcaaggacg gtggctgggtg tgacgaaagc gtggagcaca aagtgtgctg ctgctcccat 300
tagaaatata atagcgtatg ttatgttgat gcatatattt atatgcatca tccatctacc 360
tgtgtggtgc aaaattctga ataaaacctg aataa 395

<210> 50728
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-E3

<400> 50728

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atcaatgatt aaagcagacc ggaagatcac atcattgaaa caacttcagg gtcatttttg 180
gaggattgga tttcaaaaga aagagctaca gggagttgtc tttgaggatg ttcctgtggc 240
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agcacaagg cttctatttg gcaatacaac atttacgggtg acctgcgaaa gttcctgtgt 360
gggtattttg ataccacaac tggaaacaaa agagaaacaa ggagttattt tgagatctct 420
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<210> 50729

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-E4

<400> 50729

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gatcttaaga aacaactcga agatgctcgg tcaaaaggca ttgatgttag ggccttgggtg 120
gttatcaatc caggaaatcc gactgggcag gttcttgctg aagacaacca atatgatata 180
gtgaaattct gtaaaaatga gggccttggt cttctagctg atgaggtata tcaagagaac 240
atctatgttg acaacaagaa atttaactct ttcaagaaga ttgcaagatc catgggatac 300
ggcgaggatg atctccctct agtatcattt cagtctgttt ctccaaagga tactatggag 360
agtgtggtaa aagaggaggt tacatggaga ttactggctt cagtgtctcg gtaagagagc 420
agatcta 427

<210> 50730

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-E6

<400> 50730

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 gcaagctcct atagcttccc ttcttcccc gtacctctca ccagcggtgt cttcggtatg 180
 tgaaaaccca attcttcaac cctacaggat ccaacaggca atcacagctg gcatcttacc 240
 tttatcacc ttgttccttc aacaatcatc agccctatta catcagttac ctttgggtgca 300
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 <211> 299
 <212> DNA
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<223> Clone ID: LIB3079-025-Q1-K1-E7

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 cgaaggcgct cgagctcgtc gtgcgctttc tggggaccag ctgccccttc gacgtgtccg 240
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<210> 50732
 <211> 408
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-F1

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<210> 50733
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-F10

<400> 50733

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tgccgatgag gaatctgtct gacgggcaga ggagccgtgt catctttgcg tggctggcat 360
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<210> 50734
<211> 370
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-F11

<400> 50734

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tctaattggct cctatatgac ctaacttaaa ctcaccaaac tctccattca ttcgcaaaat 180
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actctgatca 370

<210> 50735
 <211> 431
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-F12

<400> 50735

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cagacagga acttgagagg atcatatgta attttgggc acttgttttt gactcctttg 420
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 <212> DNA
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<223> Clone ID: LIB3079-025-Q1-K1-D5

<400> 50736

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 <211> 421

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-025-Q1-K1-B7

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<210> 50738
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 <212> DNA
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 <223> Clone ID: LIB3079-025-Q1-K1-B8

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<210> 50739
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 <212> DNA
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<223> Clone ID: LIB3079-025-Q1-K1-B9

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<210> 50740

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-C11

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<210> 50741

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-C2

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aacgcgatac gcctatgtca cactatatgt gtcagacgca acatcgatta ccaactgccgt 180
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<210> 50742

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-C4

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<210> 50743

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-C7

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gaggcccgcc ggaagagcgt aggaggcaag gttctaggtt tcttctattg aaaaagctga 240
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<210> 50744

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-C8

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<210> 50745

<211> 66

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-D10

<400> 50745

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<210> 50746

<211> 315

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-D11

<400> 50746

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tgattcttgg actcgctcca ccatggggcca ttgcacacga tgccaaccga acggccttca 120
ttgtacatca tctccagatg atcataccac ctgaaagatc aatcagttgc caaccctaata 180
gctttctctt aaaagtgtaa acgatgcgct cctaccttac tctgcatgaa ctatgccaga 240
tgtcaaatta ttccatcacc tactatactg tcagataaat gtgtaatcat gtgccgaaat 300
cagatctggt caatg 315

<210> 50747

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-D12

<400> 50747

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gttgatgagg caggggcctg gaaaagcaag cttcagcctg aatcaaggga gctgtttgag 120
tttttgccca atactattca ggagcaactt atgcttgaaa gggatcccca tggcaatggt 180
caggtcgcaa aaattgaaac cgagaaaatg ctcattagca tgggtggaaac tgaactggag 240
aagagaaagg cagaggggag atactctgca catttcagag ggcaagctca tttctttggg 300
tacgaaggaa gatgcggcct tcctactaat tttgattcta actattgcta tgcattaggc 360
tatggcgctg gtgcccttct ccaaagtggg aagacaagac ttatttcctc 410

<210> 50748

<211> 439

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-025-Q1-K1-D2

<400> 50748

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atggctcgta ccaagcagac tgctcgcaag tccacgggag ggaaggctcc caggaagcag 120
 cttgccacca aggetgcccg taagtctgcc cccaccactg gtggagtga gaagcctcac 180
 cgctaccgcc ctggaactgt tgccctccgt gagatccgca agtatcagaa gagcactgag 240
 ctgctgatca ggaagetgcc cttccagagg ctctgcaggg aaattgcaca ggacttcaaa 300
 actgatttgc gtttccagag ccatgcggtg cttgcccctt tccaggaggc tgctgaggca 360
 taccttgntg gcctgtttga ggacaccaac ctgtgcgcca tccatgctaa gcgtgtgacc 420
 atcatgccaa aggacattc 439

<210> 50749

<211> 292

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-D3

<400> 50749

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 aaggaacgcc cagtcagaat cagatgtgct gttccaaaaa aggatgacca aaaagtcaat 120
 gacaatggga actcagatca tctgaaaagt gaaactagga catgctatga atgcggaacc 180
 cctgggcact cttcttcttc ttgccctaata aagaaggatt ctgaagcaag gaagagctat 240
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<210> 50750

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-D4

<400> 50750

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 ctcagctggg accacgcggc tgagctctac gaggacgtcc ttgtcaaggc caagtaccag 180
 tgggtgaacc ttcgccctcc gcatcaatat cttcggtttg atccattgt acatcgcgcg 240
 tttgacggtc tcggtgaaga acttcatatg cagtgcgcg ccgctggggt cggtagcagt 300

actatgggat tgcattgagc tgtgtcacta tgtgcttttt cgacaggaca gtagtgaaag 360
 tgtatgcaag ttattttgtt ttcattactg aatttggaat gcaacacaat aatgaagctc 420
 tatgtgttt 429

<210> 50751
 <211> 430
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-B6

<400> 50751

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 actggctttg tcacaagcac cgtgttgaac tccaaaccag cacaaaagtt tttcaagtta 180
 atgcctggcg aagttattct tgcttcactt gatggatttg ggaaaatatg ggatgctgtg 240
 gaagtgtctg gcaaaaatgt gatgcagaca tcctcagttg tgaccacttc tgttgtaaca 300
 cacagatacg gtgaacaagc aggtgaagcc acccacacaa ttacctccac gctacaggaa 360
 atgttctcgg agctgcgtgg gctgtattca agattagaaa agccctcgac cctaagggtta 420
 atatgaagaa 430

<210> 50752
 <211> 419
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-025-Q1-K1-A3

<400> 50752

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 gacctacatc ttttcctttc aaggcctctt agacctgctc caacagagga ggaactccta 120
 aaagacatgg acggtataac tatgaaaatc gatgaagcta ttgcaaattg ggaatcagtt 180
 tatggacgat ttcctcaaac tgtccttgat cttgcctctg atggactaaa agaagttatt 240
 actggatgta cggagttgat agcattagaa aagccatgtg ctaatgcttt ccggttgtat 300
 ctcaagactc gtcctatgcc ttcaaaagan aatctatcaa aagggtaaaa gatttgcctc 360

gtgagggtct taatccaatt ttcagggatg ttctccggtc aaatgaactt tcagctctt 419

<210> 50753

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-A4

<400> 50753

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gttggataca cataatccgg aaagcaagct tgggagcaac aacactagga ctgactgacg 120

cactccgcaa aagtgcacac atcttgagcg agaacacgag ctgtgcttag gccagggcag 180

ggaactgagc ctggtcttcg atcgctggag cagcagctgg tccccgataa ccgccgttgt 240

aaccaccacg gaacccccca cggcccttac cacggccacg gccactaggg ttatagtacc 300

tttcgccttc agctggcttc aagaactcgt tgatgccctt cagggacttc ttgccccgtt 360

cttctctttc agcactttct ttctttttca agtccttgtc agagcccagc ttgataaaca 420

ctttatcgcc atcctttt 438

<210> 50754

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-A5

<400> 50754

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ctgagaccag gcgcgaggat gctggcgggtg ttcagcggcg aggtggtgga agtgcccttct 120

tgagattgtg gaaaggtcga gccagactca tgaçcacaag acgaaggcgt gcgaaçcttg 180

cagagcgctt actgacgacc atctgcacgc gtcaacgcgt ccgggcagtt aatatagctc 240

tggcgaattt gctactcgca cgacagccat gccctactgc gctcaaagtc gatcgttgcy 300

aatgatgcag tgatctgact gttcgaagaa atttgctgga caacctgagg cacatgagcc 360

ggtagatcat gct 373

<210> 50755
 <211> 438
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-025-Q1-K1-A6

 <400> 50755

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 gcataaactt gcctcgctgt tgctgatcta tctaggagca agttatatcc tcttgtttgc 120
 cttagaagaaa ggtggtcata gccatgccca taatcatcca atggaaaaaa tggcagtcgc 180
 cgatcttgta cttgtacctg cattatcacc ttgtgcaaca actattccag attgtcttgc 240
 tgaaggcaac tcttcctcaa cgatgattct tgcaatcatt gtgctcctct tcagcaccat 300
 cacagtgtat gacattccat tggtgagcca ctttcaaaat tctacagggtg ctagccaata 360
 tcaagttcca ctgggtggag cgttactaca agatcctcgt tggcacggag ctatgcctag 420
 atggagtctt aacatatg 438

<210> 50756
 <211> 357
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-025-Q1-K1-A7

 <400> 50756

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 gctatttgga tgtacaactt actgactcgc agttgggtccc catgcactcc aatgaatctg 120
 ccccgctgcc tttttgcctc gggaagctca tgtgagattg ctattgttgc tgggtggatgt 180
 gataagaatg gacagggtgct gaggtctgct gaattgtaca cttcagagat tgggcactgg 240
 gagactatcc cagacatgat cctgaaaagg ctgttctctt caggtttctt catggatggc 300
 aagttttatg tcatcggggg catgaatcca gtcagaggga ttcatagaact tgctgag 357

<210> 50757
 <211> 428
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations

<223> Clone ID: LIB3079-025-Q1-K1-A8

<400> 50757

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ggtgatcagc ttgctattgg taaggagact ggaaggaggc ttggcatggg taccaacatg 120
tatccatcct ctgcgctgct cggccaaaac aaggatgcta cgcttgaagc gcttcctgta 180
gatgagctca ttgagaaggc cgatggtttt gccggagtct tccctgaaca caagtacgag 240
atcgtgaaga gactgcagga gaagaagcac atcgttggtg tgactggaga tgggtgtcaac 300
gatgccccgg ctcttaagaa ggctgacatc gggntattgc tgttgcggat gctactgacg 360
ctgcgaggag tgcttccgat attgtcctta ctgagccagg tcttagcgtc attatcagcg 420
ccgtcctc 428

<210> 50758

<211> 394

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-025-Q1-K1-A9

<400> 50758

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tgagcaatcg aacgaggcgc tccaggagtc catcaagagt cttaaggctg agaagtccga 120
gctgcgagac gagaagacga ggctcaaggc tgagaaggag aggttggagc agatgctcaa 180
gggcgtcgtc agccacgccg cgggtggctgc tccggggccc ttcgtcccgc accctgctgc 240
ggtcgctcca tctttccacc accaccggc ggcgtttgct catgctggaa agttcgtccc 300
gtaccccagc taccgctcgn cagctgcgtt ctggcagtgg ataccgacga cgtccctcga 360
cacgaccaat gaccccgac actggcccga cgtc 394

<210> 50759

<211> 387

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-025-Q1-K1-B1

<400> 50759

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ttcgcagtcc tcttccccac taccagagca tgcgcgttgc cgcgacccga gccgccgcgcg 120
ccgctcacc cccgagcgcc ttctgtctcc tctgtttact cctcggttgc gcgtccctcg 180
cgatcggagg agcagccatg gccggccacg tcttcggcgg cgtgaaggag aaccagccg 240
cggccaacag cgccgagtcc gacgggctcg gccgcttcgc cgtcgatgag cacaacaggc 300
gcgagaacgc gctgctggag ttctgtcgcc cntggtggag gccaaggagc aggtggtggc 360
cggcacgctg caccatgtta cgcttga 387

<210> 50760

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-B10

<400> 50760

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gaaagggtaa aaatataagg tgtgataaac cattcttttc taattcatat ttctatttaa 120
ttctattttt ttctattttt ttccaatttt tcttactctt actttctact tctttttttt 180
ttttttaatt ttcttttttt ctttctattt tctgttcttt tttttttcaa ctttcttatt 240
tattaaatac ctctttttac ccttattttt tctctttttt attatttctt atctttttct 300
ctttctcttt ttttattata acccttctact aatcggtttt tcaatctttt ctttattttt 360
attttttttt ttttattctc cctttatctg ttttttaact cttcttttgt ttttttcttt 420
cttccttttt ctttcttt 438

<210> 50761

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-B12

<400> 50761

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atgCGtatcg tgcgtaggtg ttgcttgctg ttgcaacgga ccatccatct agtgcttgca 120
 ttgctgtcgc actcgtcag ctatctccac cgctattggt tgttgtttgg ttaccacgc 180
 cctgctctct gataccagtt gatagcagca gcagctagct ataggttgtc agcaggatcg 240
 accagataga tagcgcggat cggaattaac agcgctgcaa gaggatggtg aagagcacga 300
 cgacgatggg ggcggcgagc tgcggcgggc gcgtgctgcc gctggcgctc ctgaaccaca 360
 tcagcatcgt gtgccggtcg gtggaggcgt cgctgcgctt ctaca 405

<210> 50762
 <211> 309
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-B2

<400> 50762
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 aagtgaaaaa aaaaaaaaa gtaaaaaaaaa aaaaaaaaa aaaaaataa aaaaaaaat 120
 ccaaaaaaaaa aaataaaaaa aaaaaaaaa accaaaaatt aaaaaaaagg ggcgcgcttt 180
 tttagggttc caaggtttaa tcccgggggt tttcaacttt atagcttttt tttgggaacc 240
 catattccaa ataaagggcc ctatttttta aaccttttca ctgggaaaac ccttgggttt 300
 cccaatttt 309

<210> 50763
 <211> 427
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-B3

<400> 50763
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 tttgaaagcg acaagggtgc aaaattaatg cagttggcag gattatctgc tgatgacatg 180
 attgctgtaa ataatatgct ttgcttatgt gggcctgata caaaaagtc ttcagtaggg 240
 ggttttacac tgaaatttga tgttcacaag aagaacaca caaatcgaaa agagcgaaca 300

ggggaagaat caacatgggc actctctttc gattttaccc tattttggag caattgattg 360
 aaaatcttag caaaggtgag ctgccaaaag atgaatataa ctgtatgaat gaccctagtc 420
 ctactgg 427

<210> 50764

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-B4

<400> 50764

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 gccggtggtg tttctaccat acttcaactgt gatgaattcc atggattggt tccctcgaat 180
 accagagtca aatgcctagc tgatgctgga atgtttcttg aactgttga tgtttctggc 240
 cgtcgggaaa tgagatcctt tttcaatggc attgtgagat tgcagggttc tggaagaagc 300
 ttgcctaggt cttgcacctc acacatggac aaaaccctc gtgctttttc cccagaatg 360
 tgttgccaac catccgaacc ccaacttttg ttttgaacac tgcctatgac gtgtggcagc 420
 ttcaacaaag tgtg 434

<210> 50765

<211> 425

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-025-Q1-K1-B5

<400> 50765

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 gggtagcctc ctccaccagc tgcagggggc tacgcgctg ctctccgcc tgcccagggtg 180
 gaaccaggct acggcgggta cctcctcac ccagctgcag ggggctacgc gccgcccct 240
 ccgctgtgct ctgtgcagga gcctggctac ggcgggtacc gtctccatc tgctgggggc 300
 taccggcggt ggtacgggta cagcnaaacc tgcctcgcgc tctggcgtct gaacagaccg 360

tccgcgtcta ctgcaaggcc ggcgaagggt acagcctcac cgtcaggaac ggcaccgtgt 420
gcctg 425

<210> 50766
<211> 429
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-024-Q1-K1-G4

<400> 50766

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accctaggca gttcaagggt cgggactggt tcctcaacag gaagaaggat tacaaggacg 180
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ggctcaagaa gatcaggaac caccgtggtc tgcgtcacta ctggggcctn cgcgtccgtg 300
gccagcacac caagactact ggtaggcgtg gaaagaccgt tgggtgtctcc aagaagcgat 360
gagctctata tcaccctgag aaatcttggc cgcactaccg tgttggtttg tgtccaaaca 420
gtcctgatg 429

<210> 50767
<211> 484
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-024-Q1-K1-G5

<400> 50767

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agattgctca tcatacgccc tttagtcaat ttgatgttgt ccaagatttc tcggatcacc 180
actatgcaaa gacttcagca ggaaagggtc caaaggattg ggtgaaggca atccaaagtg 240
aatgggatct tctacagaaa aacctacctg aatctatata cgttagagtc tatgaggaca 300
ggactgatct gctgagggct gccatagtcg ggccagcagg aactccatac catgatggtc 360

tgtttcttctt cgatgtccgt tttccttgcg aatacccaaa gtgcccacca gtacgtgacc 420
 actagacatc catcatcctg cctctgcctc tctggatatag tttcttccat tcaaagtgag 480
 cagc 484

<210> 50768
 <211> 454
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-024-Q1-K1-G6

<400> 50768

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 atgcgaacaa gaggcctaaa atggggcatg tgattcacat gctcgagatg gacgatctac 180
 tattacgaga tgataagaag cccgggagag acgttcatcc tcacggttca gacagatata 240
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 acagatgata cacagcaagc gcgagcatat gaggattgcc attagagagt agcgacatta 360
 accatgttcc ccaattgttt gccctcccg tcaatctcac tgggtcttga ttgtattata 420
 tgtgagcatn catcattctg tgacgatact tgat 454

<210> 50769
 <211> 486
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-024-Q1-K1-G7

<400> 50769

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 caaggagtgc atcctcagcg gtctcctctc tgtagacggc ctcaagggtt tgcatatgga 180
 cagaaatgac tactatggag gagattgcac ctcaactaac cttaatcagc tctggaagag 240
 gtttagaggg gaagacaagc ccccgacaca tctaggtgca agcagagact acaatgtgga 300
 catggtgcc aagtttatga tggcaaatgg gacattgggt cgaaccctca ttcacaccga 360

cgtgacaaag tacttgtcat tcaaagctgt tgatgggagc tatgttgtca gcatagggaa 420
gatttacaag gtccctgccg ctgatatgga ggctctgaag tccccttga tgggcctatt 480
cgagaa 486

<210> 50770
<211> 465
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3079-024-Q1-K1-G8
<400> 50770

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gaaggttatt cgccatgaac atctgagagg agcaccactc ttgatagttg caaacaaca 180
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catagactgg ctggtggaac aaatggaaaa aagcagacgt accgagacac tgcaggctcg 360
tgctggcgta gctggacaaa tttagaatga ggtgaatttg ttaaagaaca nagcattgga 420
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<210> 50771
<211> 452
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3079-024-Q1-K1-H1
<400> 50771

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tatgcctacc ctgcaccgnc atgggtggcg cctacacatc ctgttgattc taaccctttt 180
ctttcgggtca attaccaaga tccacgcctt gctgccactt ctgttgctca aacagcaaca 240
tatgcacctn cccagcttc atatccccct tcaatatctt atgcacagtt tgcaaccccc 300

cagtcaattc agcatagcaa ttctgtggct tcaccgagca atggtcagat tgcaaataca 360
gcacaaatga atgtgaatca acaacaaaa gattcttcgg cagcatctag cagaccatac 420
tacatacctg ataattctatt cagtgatttg at 452

<210> 50772
<211> 460
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-024-Q1-K1-H2

<400> 50772

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cccagtgatc aactcagcat ccaacatagc aatagtgtcc actgggtgatg acaaagcaaa 180
ggctgttcac atagcagttt ctgacatggc cgaaggctct gatgctccta catcactgcc 240
tgctagaatg gtccagccaa cggacgggaa gctggtatgg attctggaca aggcggcggc 300
atcattcctt gactccaaga acgacgacga cgacgcttgc tacgatcgtc acgagtgact 360
aactctgagg atcgctggtc gctttgaaac gaatgaaccg aagtgtgtgt aaataggtgg 420
tggcgatatga tggaagacgc gctgttcccc ttttagctcg 460

<210> 50773
<211> 348
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-024-Q1-K1-H3

<400> 50773

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tattcagact gccacatata tatatactcc aaccttcatt acttaatcca gaccatacac 180
ataacagaat cagacatacc actatcacat aaccctacta cattacatca tattagactg 240
gtcacaacta cacacttgaa gcatttactg ctcatggacc agtcacttat tatgatacta 300
gctcactaga tcgacaaaca tcacgatata atacttcatg acgataat 348

<210> 50774
 <211> 460
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-024-Q1-K1-H4

<400> 50774

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tgctcctcac cttggcaagg gaatactggg caagccacca atcattcctt ctgggttttg 300
ctacggattg tcgcttgaga ttccatcagt tgctcctcac cttggtaacg gaatactggg 360
caagccacca agtaataaa cacccttaga tcaacggagc tcaactcaac tagtgcacgt 420
acgggatcca caccagcata catgtcagca atcatgtggc 460
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<210> 50775
 <211> 482
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-024-Q1-K1-H5

<400> 50775

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gtcattcctc tgtagacagg cagagctctg gttacttgga ccttcagtct tttatgcaga 180
ccatagcttc aagggaagga ggcagaccaa tgtcagagat ccgcaatgtc ttcgatcaga 240
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tgagacgagc taatttgatt gatagacatc gggatatgag gcttgatgtg gataatatgt 360
cctatgagga attgctggca ctaggtgaac gcattgggta cgtaaacaca ggacttactg 420
aagaaaagat tttgagtaac ttgaaacaat ggaaatgtgt cttaaaatca tgggatgatc 480
ct 482
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<210> 50776
 <211> 319
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-024-Q1-K1-H6

 <400> 50776

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 ggagagggcg gtgcggcggg gggcggcgc cgtcggcggg cgcttggtcc tggacggcgg 180
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 ggcgaaacatt ataatcaca 319

<210> 50777
 <211> 460
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-024-Q1-K1-H7

 <400> 50777

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 gaacgggggt gagtcggtgg tgattgacta cggccggcgc cgcactacct gcggtactg 180
 ccgatccttc gggcccacga gcatctccca cggatgtggt gctaacagtc tgaaagctga 240
 tgactatcaa gctcttcttg atcgtggttg gaggagatct ggggtgttctc tttaaccaacc 300
 tgagatggaa cggacatgct gccctcata tacgatacgc ttgaaagcaa atgatttcat 360
 ttgttcaga gagcaagctc gggacttaa caagatacaa aggttccttg atggcgagct 420
 cgatccacag attggaagcc cttagtgtaa ggcaagttca 460

<210> 50778
 <211> 294
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-024-Q1-K1-H8

<400> 50778

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ggagaccagc acaaggcgtg ctgcattgga ggcgtcgatt aacgaagtgc tgttccagat 180
cataaagttc gccaacgaga aaaaggacca cattcttgct atccctgaca ggattttcaa 240
tcacgagatc atgatcccaa gctcggattc tggattcgga tggaacacgg acgt 294

<210> 50779

<211> 326

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-A11

<400> 50779

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aggggggatga attaggttca cgatcaagct ctattgtgtt ctaagaaact ttctgtgctc 120
tcccaatttt acattattag gaagcggatg aatatgcatg cagttttgtt gtttggaact 180
agatgtgtat ggaagaaaca tgatcttttt tctaaaaaaaa aaaaaaaaaa aaaaaataaa 240
aaaaaaaaaa aaaaaaaaaa aatataggac aaaattattt aaaagataaa aatattaaaa 300
ctatatatat aaatattaat agatat 326

<210> 50780

<211> 454

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-024-Q1-K1-E2

<400> 50780

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gcatgcgcgt tgccgcgacc cgagccgccg ccgccgctca ccctccgagc gccttcctgc 120
tcctcctgtt actcctcggg tgcgcgtccc tcgcgatcgg aggagcagcc atggccggcc 180
acgtcctcgg cggcgtgaag gagaaccag ccgcggccaa cagcgcgag tccgacgggc 240

tgggccgctt cgccgtcgat gagcacaaca ggcgcgagaa cgcgctgctg gagttcgtgc 300
 gcgtggtgga ggccaaggag caggtggtgg cgggcacgct gcaccacctt acgctcgagg 360
 ccgtcgaggc cgggaggaag aagctctacg aggccaaagg ctgggtcaag ccatggctcg 420
 atttcaagga gctccaggaa ttcagccaca aggg 454

<210> 50781
 <211> 481
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-024-Q1-K1-E3

<400> 50781

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 caatacacat gtgtgttgag gaacaagtgg ccatgttttt gaacacagtg tgacagaacc 180
 ttaggaatag gttggtggga acaaattatg gtagatctgg tgagactgtt actcgctact 240
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 tatagactcc atccaaaata gcatgaaatc caagatggga tccctacttt aaagtgtgat 360
 attcagctat tcaatattct acttcaagaa ttttcactat ttaaaccat aataccctta 420
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 a 481

<210> 50782
 <211> 485
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-024-Q1-K1-E4

<400> 50782

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ccagcagact tgtgggcaca tagtaagggtg gatacatggc taatgaattg catctgatgg 240
ccttctctcg atcaagtcag atgttttcag tttagtatta atgggtgtatc tgtatgggtgt 300
tctacattat ttccttccat aaaacctgng aactgtggaa agacaggaga tggaataagt 360
tcaatgatca atcatttgggt gatgactacg aactggaaga gctgatgaaa taccttgctg 420
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tgatg 485

<210> 50783
<211> 467
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 50783
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ccactgtctc cagttagaag gcgttctcct tcaccaccta ggaggcatag gtcaccgatg 180
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cttaggcggc gctcgccacc tccaaggcgt ttgaggagcc caccaagaag gccaccacct 300
tcacgtcgtc atagtcgac tccttctcgc cgacccttc gctccagatc gatttctcca 360
agaaggggac gagggcctct cttgaggcgt ggtangtcag gctcatcatt atctcgatca 420
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<210> 50784
<211> 457
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-024-Q1-K1-E6

<400> 50784
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tggcctacct ggacgacgcg cccgcgcccc tgcgcgaggg gcccccaagg ctgcactact 180
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ccgcagcctg ccaccgtcac agcagccagc cgcagctcac tgtctgatcg accggcccg 300
caagcgtgcc cgaccgggtg atgcagccgt ttcttttctt ttcttttctt tgttgtcctg 360
gcggnngcgc ctggctgggt gtgtcgactc gtcttcttcc ttggatgatg tctgtcttgg 420
tacatatgtg ttggtcgttc ggtgctagtg agctctc 457

<210> 50785
<211> 469
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3079-024-Q1-K1-E7

<400> 50785
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ctgggcccgc cgtcgtctgc gccctgcctc tccaccgtcg ccggcgacga gcaccactag 180
gtgtttttga gtctgttgcg agtgttgtgg ccatgtccat gttcaatagg atcttcggga 240
agcccaagga gcaggccaac tccaatgctt tggccactct ggacaagtta aatgagacac 300
ttgatatgct ggagaagaaa gaaaagggtgc tggagaaaaa agcaaacgct gagcttgaga 360
gagccaagga gttctcgaaa gcaaagaata aaagagcggc tatccaatcc ttgaagagga 420
aaaaactnta tgagcaacan attgagcagc tnggnanatt ttcagttga 469

<210> 50786
<211> 175
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-024-Q1-K1-F1

<400> 50786
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aaaaaaaaa aaaaaaaaaa aaaaaaaag aaaattttca aaattaaata tccaacttac 120
ttacaccat cttccaacat ctaattcttt tacaaccaat cctaaattcc ttcca 175

<210> 50787
 <211> 473
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-024-Q1-K1-F2

 <400> 50787

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 aggccttcag gaagatccat gtcagactcg tcaggagct ggagaagaaa ttcagcggca 180
 aggatgtggt aattgttgc tacaaggagga ttgtgaggcc acccaagaag ggttcagctg 240
 ttctgcgccc tcgcaccagg actctgactg ctgttcacga tggcatcttg gaggatgttg 300
 tctaccagc tgagattgtg gggaagcgtg tcagataccg tctggatggt tccaagatta 360
 tcaagatttt cttggaccca aaggagagga acaacactga atacaagctg gagacctgca 420
 ctgcggtcta ccgcaggctg tgtgggaaag atgtggtctt tgagtaccct atg 473

<210> 50788
 <211> 434
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-024-Q1-K1-F3

 <400> 50788

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 gccggccgga gaggcgatga tgacgcacca gcaccagcag cagcaacagg cgccggcgctc 180
 gtggttcgcg gactacctgc acgcggggcg cccaggcatg gggatggact acgacctgct 240
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 gctgctggtg gacacaggcg gtgaccgagg aggttcgcc gcgccacgc ccacgcccag 360
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<210> 50789
 <211> 477
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-024-Q1-K1-F4

 <400> 50789

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 ccgttgaggg ccacctgcaa gcctcgcgaa gccatgcgtc atgttcttca gcagctctga 420
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<210> 50790
 <211> 483
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-024-Q1-K1-F5

 <400> 50790

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 tggggtgccc ccgaagctt aacgctaagg aactctcgtc tgaaagctac aattctcaga 180
 cactacgcct tttgtcttta gctagcatgt cagggtgttg ccaggtttcc attcctttgg 240
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 cgaaatctag tgtttcaagt aaacaggcga tgaatgaaga agcagctgaa gctgctaaag 420
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 aac 483

<210> 50791
 <211> 329
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-024-Q1-K1-F6

<400> 50791

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 cggtcttagg gggctacgcg ccgacgccta cggctggcct aatggaacca ggctacggcg 180
 ggtacccttc tacagcagct gcagggggct acgcgcctcc tactgcaggt gctcagatgg 240
 aaccaggcta cggactgtac cctactacgc catctgcaag gggctactcg ccgacacata 300
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<210> 50792
 <211> 477
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-024-Q1-K1-F7

<400> 50792

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 cgaagcgctg cctcaagagc gacgccacgg acgtcgaaga gctcgccgac gcgctgcagc 420
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<210> 50793
 <211> 371
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-024-Q1-K1-C2

<400> 50793

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atgataagat ttactaaaa cacattctta tttttcaaat caaattcatt taattgtacc 180
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aactatctat gtgttaacaa tgtagcatta cttacactag atatctcgct aaatcgtagt 300
aattcatact tttgtcaata tgcattagac ttcaattctt tcaagagttt caatcttaca 360
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<210> 50794

<211> 467

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-024-Q1-K1-C3

<400> 50794

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tggcggcggc ggcgggtggc ctgctcgctt tgggtgggagt taccgagata ggctgcttc 420
atacgatcgt cccagcangg gatgagcagc tcgtgcttat gatgac 467

<210> 50795

<211> 488

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-024-Q1-K1-C4

<400> 50795

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ggccgcgcgc gcggccgtgg agagcggcag ccccttggtc cccaacagga tcagggagt 420

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<210> 50796

<211> 481

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-024-Q1-K1-C5

<400> 50796

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cggcactgcc tcccactect cctcctcgtg gccgccgccc tcgcgcgcgt ccctgctcgc 120

gcggcgctgg gcggcgggcg cggcccgtg ctgggcgggt ggaaccgat ccctgacgtg 180

agcgactcgc acatccagga gctaggcggg tgggcgctgg ggcaggcgaa gcaccagaag 240

ctggccgccc acgggctgcg gttccgccgc gtggtgcgcg gcgagcagca ggtcgtgtcc 300

gggatgaact accgcctcta cgtcgacgcc gncgaccccg ccggccgcac cgtgccctac 360

gtcgcgctcg tgtacgagca ggtctggacc cgcacccgcc agctcgctn cttcaaccg 420

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<210> 50797

<211> 153

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-024-Q1-K1-C7

<400> 50797

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aaacaaacaa tataacaacaa tataaactaa tat 153

<210> 50798

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-024-Q1-K1-D2

<400> 50798

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tggccaagtt cctgctgaat ttgcagtgcc caggcccgat gcaaacatgg ccgaagcttc 180
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ctgggtcatc cattgtctga gttaggtttg ccagttttcg tgggggtgca agaaagagct 360
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tggcttattt ttgcagt 437

<210> 50799

<211> 490

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-024-Q1-K1-D4

<400> 50799

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tggtcagaag gttcttcaga attacaagaa tctccaagat attattgcca ttctgggaat 180
ggatgagctc agtgaagatg acaagttgac agttgctcgt gctaggaaga ttcagcgggt 240

ccttagccag cttttccatg ttgctgaagt tttcacgggt gcacctggaa agtacgttga 300
gctgaaggag agtggttaaaa gtttccaggg cgttttggat ggcaagtatg atgaccttcc 360
agaacagtca ttctacatgg ttggaggaat agaggaggtc atcgccaagg cagagaagat 420
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aacgtgatgt 490

<210> 50800
<211> 488
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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tcgcactgca gccacaacgg gcacaactcg cggacgtgcc ccaaccgcgg ggtcaagatc 180
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cgcgagcgta agaaaggtgt tccttggact gaagaagaac accggaggtt tttgctggga 420
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acacctac 488

<210> 50801
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-024-Q1-K1-D8

<400> 50801
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gtgttttttt tgggaaagaa acatacaatt tttgtttctca ttctagtatc gtctacctat 180
 gtcaaaactac aatatgatag gacccttgct aaataattgt ttcgtttgct ggtaaaatat 240
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 gtcgacgaag gcaatggcta cgccttcgac gacttacatg caaaagtgtg acttcgacag 360
 cctcgaacgt aagaaagggtg ttcctttgca ctgaagaaga acacctgaag ttattgctgg 420
 gattacaaaa gc 432

<210> 50802
 <211> 483
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-024-Q1-K1-B8

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 ttttaagactc gacggcctcg aaatcttcgc ctgcaatctc caggcaattg gttctacctg 180
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 tgaatcctgc cctttcgtaa gcgagaaggg actagagtcg atcgcaactc tctgttccga 420
 ccttaaggag attgacctca ccgattgtcg tattaatgac gcagctttgc agcagttggc 480
 aag 483

<210> 50803
 <211> 343
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-H8

<400> 50803
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gctccgtgca ctgcgtcaac accgccctgc aaggccccctt attatccgag ttcgacctgg 180
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 gctctgggtgc gggctacgct gctgcagggg acttctttgt ccagcgcgag ggctctcaca 300
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<210> 50804

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-H9

<400> 50804

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 cccaacgcca agaactccca ggacgggctc accccggagc agcgcgcgga gagggacaag 180
 aaagctctgg aggagaaggc ggccaagaag ggcgagcagg cagcggccgg cggcaccggg 240
 acctccacgg acaacaacaa gaacaaggca ggtggcaaga agtaggaggc agtggcgcg 300
 cgtcacctct gtacgattaa tcgatgcctt gagcttgtaa cttgttcgca tccttgtagg 360
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<210> 50805

<211> 313

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-024-Q1-K1-A3

<400> 50805

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 acattttgac acaaccattt cagtttagaa aatttgatgc ggagctgact tcagtgaag 180
 agtggttagct tgccatttca gtgtatccaa ttgttgcca ctgtagtcta tatcggtgtt 240
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tgcatgcttt gat

313

<210> 50806
<211> 327
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-024-Q1-K1-A4

<400> 50806

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tcattacaat ctcgtagttt tacttggttg gcttgacttc ctactattta taaacacaat 120
accagaagt ctttatgtgg tgtcaaacat agttttcaact aaaatttcat aatcgctttt 180
ccactagcta cctcatattt ttgaaacgca acttgtgact ttacccaaat gaaattaatc 240
atatctccat tgcatactcc ccccataaat attcccaaaa tttcttttaa gattgatttt 300
atcatcaata agcctcataa tatccac 327

<210> 50807
<211> 477
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-024-Q1-K1-A5

<400> 50807

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ggagaacacg ttcagcgggt tcctgcaggg cgccggcgcc gacaccgagg cgagggccgt 120
gttcgcggag gggtcctgt tctgcccgtt cctgttcggc aacttcttcg acccggccga 180
cccgttcccg ctgtgggagt tcgagtcga cgtgctgctc gccgcgctcc gccgcggcaa 240
cgccaggacc accgtcgact gggccgagac cgactgcgag tactacctca gagccgacgt 300
gccaggtgga aggagatgag acgtggaggt gagcgngac gcgatgaagg tgatcgacat 360
ctgcgggctg tggcgggcgc cggcgcgga cggccgggac tggcgctgag gccggtggtg 420
ggagcacggc ttcgtccggc gggaggagct gccggaggac gcggagtga ggaaagt 477

<210> 50808
<211> 484

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-024-Q1-K1-A6
 <400> 50808

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gtagttttag tggttgggct tgacttccta ctattcagaa acacagtacc gagaagtctt 180
taggtggggg caaagatggg gtcgctgaag ttgcaaaagc gccttgccgc gagctacctc 240
aagtgtggga aaggcaaggt gtggcttgac ccaaataag ttagtgagat ctccatggca 300
aactcccgcc agaatatccg gaagttggtt aaggatgggt ttatcatcaa gaagcctcat 360
aagatccact ctagatcccc tgcaagaagg gcacatgacg ccaagcaaaa gggacgccac 420
tcangatatg gtaagcgtag gggtagcagn gaggttaggc taccaccaa ggttctgtgg 480
atga 484
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<210> 50809
 <211> 482
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-024-Q1-K1-A7
 <400> 50809

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aaactggtct tccctacggg agtaacgggt atgattccag gatatatggt cgatgtgggc 180
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gcaatgagag tcaggatgga acaattgagt taaacagagg tcctagatct ggccgggttca 300
agaaccagaa attgtacggc catactgtca ctattgctgt gaaagggcag tctctccctt 360
ctagtgaag caagaatgat agtgctgtgc ctgatagagc aaagtacaat agagatgact 420
tccctgttca gtacgatgct gcaaagttct ttgtcattaa atcgtagagc gaggatgaca 480
tc 482
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<210> 50810
<211> 469
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-024-Q1-K1-B1

<400> 50810

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tgaccgagca gtctactcgg ccagccggg gatccaagcg ggatggggta cttgagctcc 120
gtgatcggcc accccaccga tggatcctcc gtcagcggcg gcggcctcag ccagaatggt 180
agatttagct atggctatgc aagctcccct ggtaaaaggg catccatgga agacttctat 240
gagacaaaaa ttgattgtgc tgatggtcag atagttggtc tttttggagt atttgatggt 300
catggtggtg ctaaggtagc agagtatgtt aaagaaaacc tgttcaacaa tcttgtagt 360
catccaaagt tcatcagtga tactaaagtc gctatagatg atgcttataa aagcaccgac 420
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<210> 50811
<211> 489
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-024-Q1-K1-B2

<400> 50811

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gatgggaagc agctgcggcc aatgatcctt aagaggatta agaaccggac aaaggaatac 120
ccaatcaaga gcatgatccc agtcgcggag gaggtggtca gggctaggga gattgccaat 180
gagggcgtct ccagactgct caaggttgtt cctgttcagt catgcaagtt ttgtcatgaa 240
gttcacattg gaaccacggg tcatcagatg aaaacatgct atggtttcaa gcgtatgatc 300
aaggacagac cacatgaatg ggaaccgggc aacttgaatg acatccttgt tcctgttcag 360
gctttccacc agaaaaatat gtttgagcat gagataaac atgaccagcg gttcgacttc 420
actcgcgtcc cagctgtact tgagctgtgc catcacgcan gtgcagacat acctgatgag 480

attctatac

489

<210> 50812
<211> 469
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-024-Q1-K1-B4

<400> 50812

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gaaggatggg cttcgagaag cagatcctga gatccggcac cggccccaag ccgataaagg 180
gccagaaggt caccgttcac tgcaccggct acgggaagga tcgtgatctg tccaagaaat 240
tttggagcac caaggaccct gggcagcagc cattcagttt cagcattggg cagggttcag 300
tgatcaaagg atgggacgag ggagttatga ccatgcaagt ggggtgaagtt gctcgtatcc 360
agtgcacgcc tgattatgct tatggagccg gcggggtccc agcctgtgga attcaaccaa 420
actcagtgt tgtgttcgag attgaagtcc tcagtgccca gtaattcgc 469

<210> 50813
<211> 475
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-024-Q1-K1-B5

<400> 50813

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tgtagcgcat ctgacagtcc acaaaaacct aagattcggc accaagtcac taaccgaagg 180
aaggctgaga tgaggaagga tgtgatttga tctcgaatat caactacatc tgtctagcgt 240
cgagacacat gtgcggtagt gctaagttgg ttctgtcttt cagtttcttt ctatatccta 300
tttctgtgaa aatattttat gtgagtgatg taaactgatt gccagaatta atggatgttt 360
tgcagctacg ccagaagctg atggttgtgg gtaaaacatt tttgttctgt aatccccagg 420
ctagcaagtt tcaacttaaac aaaggttcag gctttcgttg tttgcaaggt actat 475

<210> 50814
 <211> 375
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-024-Q1-K1-B6

 <400> 50814

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 gcctataacg cctcctatac tgtcccccaa aacctattat ttggcaccaa ggtttataac 180
 caacggaact gtcaaaaccc tgaatgcac ccatctcacc tccaatatca actaattccc 240
 tattagccct gatacccata taccctaaaag ctcagcacca tttgcctttc acatcatttg 300
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<210> 50815
 <211> 442
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-024-Q1-K1-B7

 <400> 50815

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 tggaaggaga tgagggctgc aacgtcctgg gaggacgttg agaacctggt ctggggagag 180
 ctgaaccggt accaggactc tgcagttcgc tcagcataac taaacaccag caaaaaaaaa 240
 aaaaaaaact ttctgaacat acgtgtatgt tgttgttcct ccgacgaatg taacttccaa 300
 atataaaaaa aaagtgtagg gaaaataacg aaggctcgac acggcatgcc cgtattttcc 360
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<210> 50816
 <211> 344
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-H7

<400> 50816

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ccctatacaa agccaagctt atacgtgggt tctgccaaact ctactacggt caggaggact 180
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gaccactgga cctacctcgc ccgcggaggg gacctagtct gcgacttcta cgagctgatg 300
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<210> 50817

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-G12

<400> 50817

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tgatgtacga tgattatcac gagtacttca agcgctcatt tgaggaaaac atcgctgcgc 180
acgtgcctca gggagtgga tgggggttaca actatcgatt gggggaaatc aggcatagga 240
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<210> 50818

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-G5

<400> 50818

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 agatgcgctg gttctgaagg gggattacga cctgatgtcc tctcaaagat gtgtacctcg 360
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<210> 50819
 <211> 403
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-G6

<400> 50819

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<210> 50820
 <211> 272
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-G7

<400> 50820

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 taccctgcc tctgaaccaa tctttctgct attgctgctg ctgctgtac tgctgtggct 180
 gcgaatgggg aacaggaagg ctacatcaac gctgacatag ctaacgttaa tctcctggca 240

gctgatatac catatgacag ataccacatg at

272

<210> 50821

<211> 406

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-023-Q1-K1-G8

<400> 50821

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acggcggcgt gaagggcttc gtgtccaacc tcgtccacgg cggcgggcggc catggccatg 180
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gcggccacgg gtaccctcct cccgccgccg ccggcgcgta ccctcatccg cacggcgcggt 300
accctcaccg gcacggcggc cacgggtacc ctntccccgc cacctacccc gcgcactcgg 360
cgcactacgg gcacacgggg tcgtaccaca ccagccacaa cagcta 406

<210> 50822

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-H12

<400> 50822

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acaggtgcaa tagctcttat gcagttgcaa gataacttga cgaagtatat gagtgtgag 180
ggccagtaca cagaggagga acttgaaatg tacatggaaa accataagaa agtcatgggt 240
gattctctgt ggaagcttaa cgttgctgac atagaagcca cattatccca tgtctgtcaa 300
atgggtacttc aagacagtaa tgccagaaag gaggaattgc gccttcgtgc taaaggctta 360
aaaact 366

<210> 50823

<211> 364

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-023-Q1-K1-H2

 <400> 50823

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 aggtctacca ctaccgtctt ggcaccgtac tctgcgtaac ggacctgtgc gagagggacg 180
 actgcacgac gcacaccacg gtctggaccg acatgctgca ggagcggagc gcggagctac 240
 agaaagctga gccgatgtgc cagctggtgt agaatgagct gcaggacatg acagtggacg 300
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<210> 50824
 <211> 406
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-023-Q1-K1-H3

 <400> 50824

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 gtagcaataa cagccggcta tgagttcaac atcaaagggtg ttctcgcagc tccaccaga 180
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 acaatgttgt taacatgggt atccttgacc gtctgaaatt agcgtggaag ataatgacta 300
 ctgcaccaac cacacaggat acctgcaatg catacatcgc aaaacagagg cttagatga 360
 tcctgatctg cgacaggtgt gaaatcagtg attaagcaaa gaaaaa 406

<210> 50825
 <211> 151
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-023-Q1-K1-H4

 <400> 50825

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 agcaaatagc gcgcgcgcac cagtcgtcaa t 151

<210> 50826
 <211> 371
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-023-Q1-K1-H5
 <400> 50826

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 ctctccggtc tgtgcgacgt caacctgctg ctggctcctgt cttccacctg cggcaagctc 120
 taccactacc tctcggccac cgttccttac gtcgaggacc tggtcgagag gtacgagggc 180
 acgacgcaca ccaagggctg taccgacatc cgtcaagagc ggcgcgcgca gctggcgaag 240
 gcggagctga cgtgcgagct gatggagaaa gagctgcggg tcatgacagg ggacgacgga 300
 tagcagtaca ctgtgcccac tgttgagctg cttgaacaca aactggatgc agccgtgcac 360
 aaggtgcgct c 371

<210> 50827
 <211> 408
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-023-Q1-K1-H6
 <400> 50827

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 caatgcgggg cctgtacatg catatgtcac cgttcctggt ggcaagacaa gctacctctc 120
 agagttgggg tcaggaaagg aagtcatcgt gatcaatcag agtgggctat ggcgtactgc 180
 aattgtcggc cgtgtgaaga tcgaatcaag gcctctgac cttgtagaag cgaaggataa 240
 ctctggagac gagacgtata gcatttttct acaaaacgca gaaacagttg cacttattac 300
 ccctaacaca ggatcaagtg gaaggaccgg cattcccgtg acttcgctga aagtcggtga 360
 tgaagttctg gtgaggaaac agggcgccgt ccgtcacact gggataga 408

<210> 50828
<211> 411
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-023-Q1-K1-G11

<400> 50828

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ccggcaagtc ggcgccgaac atggggaggg gccgggtcga gctcaagcgg atcgagaaca 120
agatcaaccg ccaggtcacc ttcgccaagc gccgcaacgg cctgctcaag aaggcgtacg 180
agctctcggt gctctgcgac gccgaggtcg cgctcatcat cttctccaac cgcggaagc 240
tctacgagtt ctccagcacg cagagcatgc caaaaacact tgaaaagtac caaaaatgca 300
gttttgcagg gcctgaaaca gcactccaga atagagagaa tgagcaactg aaaagtagcc 360
gcaatgagta cctcanactg aaggcacgtg ttgataattt acagcggact c 411

<210> 50829
<211> 360
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-E8

<400> 50829

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gaggaactga gctgaccatg atcctgacga caggactgct ctgaacgctg acgagccttg 120
gccacaggac agactatatg atcatgcaca acatgggcct ggccattcta atacaagccg 180
tcctctactt agcgtgata accagcttcc tcatggccat cgggcttcac atctacgca 240
gctagtagac ggccggaaca tgatgacata tacagactaa caggatgctc cgacggaggc 300
atccacttca agatctgcgg ttccagctac ggtcgtatag gctgtctcta attctatgga 360

<210> 50830
<211> 340
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-E9

<400> 50830

aaaaaaaaa caaacaaca aatcaaaaaa aaaaaaaacc aacaattaaa aaaagagggg 60
gaaaaaaaaa aagaaaaaaaa caacaaccaa aaaacatact actaaaaata aacaaaccac 120
atactaaaca tctacgcctt cctttatgac tccttttetta caaagtctga catctatctt 180
aacaatgcta ttctaactga ttagaaacac ttgcctatgt atgactaatc gcctagcatg 240
atcaaagttg aatatattgc cagacgagcc acccagaact ctatcacggg tgcccaatgg 300
atgcttcaaa ctctgggtgc aacaagctac atgagatgca 340

<210> 50831

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-F1

<400> 50831

tactcgggtc tcgtgaattc ccgggtgcga cgccacgtcg tctcgggtgcc cactcattgt 60
gcgtctactc atgacatcgc atcatcagac tcgagaggac atatgatcaa agcggggcca 120
gattaatgct gacctatcaa caagctatac caatgactac ccacactgat acacgacatc 180
attcatcgca actcaaacgt cagcgaacct tacactcttt caacaacata cttctgcagc 240
agcaagaact gtgcttgatg tactaacagg acatgcagag gctgacctat acttactcat 300
ctgtatcact tgaaaatatt gctcattctg atcaacttgt cccaacaagg gatcctgaaa 360
cacacttact atccatgac gaata 385

<210> 50832

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-F10

<400> 50832

gctgtacccc acaccactag gcactagtcc actacctaac gctacctgcc ttttcacgcg 60
cgtagtgccg caccgacacg ttgagctcgc gtccgtccca gatccgacgt gtcctccat 120

cgctcgcgca agatgaagat cacggtgcgg gggtcggaga tgggtgtaccc ggcggcggag 180
acgccgcgcc gccggctctg gaactcgagg cccgacctgg tgggtgccgcg gttccacacg 240
cccagcgtct attttttccg ccgcgaggac ggcggacggga acgacctggc gggcgcggac 300
gggagcttct tcgacggggc gcggatgcgg cgcgcgctgg ccgaggcgct cgtgcccttc 360
tacccgatgg ccggccggat ggcgcgcgac gaggacggcc gcgtcgagat cg 412

<210> 50833
<211> 383
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-F11

<400> 50833

ttggaagcct actctggtat cctgcaagga ttttaagagtt cacctaagac acaactgctg 60
atgccattcg ctccgcatat tattcagttc cttgatgctc tgtacaatgg gaaggatatg 120
gatgatactg tgatgaagac tgcaataggt gtcttggggag atctggctga cacattaagt 180
gtccatgctg gccctttgat caatcaatcc acctcaagcc aggcattttt agaggaaatgc 240
ttggcatcag acgataccttt ggtgaaagaa tctgccgatt gggcggaggat agcagtcagc 300
cgtgcagttt cgggttgatg ccacagttag tctcgagtct gcacttgcat cccatccaca 360
tgtcatcatg cctggggcctt taa 383

<210> 50834
<211> 388
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-F12

<400> 50834

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cttgaacaga aggacgagag ggatatgaaa tctgaactgt gtgttgatct tgaattaaac 120
caagttattg accgaaatgt aggagatctt tctggtggag agcttaagag atttgcaata 180
ccagttgctg ctgtgtataa tgctcaaata tatatgtgcg atgagccatc aagctacctt 240
gatgtgaagc ataggctaaa agctggacca gtcactaggt ccttgcttag gcctaacacc 300

tatgtcatcg ataggaaca tgatttcagt gtcttgtatt acttgtgcga cttcatttgc 360
 tgcctatatg gcaagccatg tgcttata 388

<210> 50835
 <211> 232
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-F2

<400> 50835

gtcttcttgt tataattacc actgtgtcta tgaattgtgg gtctagctgg gtctatgaag 60
 ggtgagtctg atgacaattt tacaaacttg tttcttgcctg atggtaaata tcagaatctc 120
 tcgctgcatt gtgagtgtgt taaaaaaga tacaaaatgc tatagaaaaa aataaaacaa 180
 aacactcaac aatgcatgct aataaaaaat gatacaaaag gacaatagca ta 232

<210> 50836
 <211> 421
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-023-Q1-K1-F6

<400> 50836

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 gaccaagggc cgcggcttcc gcgaggacc taactcctcc gcgaccgcg actcgcgctt 120
 tggcgcgggg ggacgcgccg acctcgactc gcttggcggc cctggacca tccagtcaat 180
 tgaaggatgg attgtgttgg tcacaggagt tcacgaagaa gctcaagaag atgaccttca 240
 aaatgctttc caagaatttg ggcaggtcaa aaacctgcat ttgaatttgg accgccgtac 300
 cggatttgtc aaggggtacg ctttgattga atacgagaag tttgaagaag ctcaggctgc 360
 aataaaagaa ctggatggag ctgagctnta taaacaaaga atgagtgttg attgggcatt 420
 t 421

<210> 50837
 <211> 394
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-F8

<400> 50837

ccacaagaac gtgttcgcct tagttgtttg cgtgttctgc atcagcttgc gtctaggaca 60
acttgtgcag aagctatggc agcaacaagt gcaggaactc ctcaggttgt accactgctt 120
atgaaagcaa ttggatggca aggtggaagt atactggcat tggagacatt aaagcgtgta 180
gttgggtgctg gtaatcgggc tctgatgct cttgttgcac aggggcttaa ggttggctctt 240
gttgaagtac tccttggat tcttgattgg cgtgttgggtg gaagacaggg gctctgtaat 300
caaatgaagt ggaatgaatc agaggcttca attggacgtg ttttggctgt ggaggtgctt 360
catgcttttg caaccgaagg tgcacattgt gcta 394

<210> 50838

<211> 350

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-F9

<400> 50838

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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa ttataaaaaa atacaaatta aaataaaaaa 120
aaataaaaaa taatgtttct ttttttgtgt cacctatttt aattttctctg cctttcattt 180
taaaactttt tttttgtgta acactatttt tattcccttt ttattctttt taaaacatat 240
ccctttttta acctttgggt ttaccacttt tatgcccttt cctttcaatt ttcttttcag 300
attctcattt tttatggaat atgtcacgcc ctttgtcttt tcccattaat 350

<210> 50839

<211> 370

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-023-Q1-K1-G10

<400> 50839

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cagctaactg cactgcactg cactgcacgc aatggccacc acggcgaccg aggcggccaa 120
 ggctgcaccg gcgcaggagc agcaggccaa cggcaacggc aacggcgagc agaagacgcg 180
 ccactccgag gtcggccaca agagcctgct caagagcgac gacctgtacc agtacatcct 240
 ggacacgagc gtgtacccgc gggagccgga gagcatgaag gagctgcgcg agatcacccn 300
 caagcaccca tggaacctga tgaccacctt cgnccgacgag ggccagttcc tcaacatgct 360
 catcaagctc 370

<210> 50840

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-E6

<400> 50840

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 aaaaataata acatatgacc atgacacaaa tacacaagaa tactacaata tctatactat 120
 ccctttatat atctaactat atattatgaa ctacttactt ctcttggcaa gctctataacc 180
 ttaactcgac tatgcttttg aaatccttcg cttactatgt tccatactcc tacagagtga 240
 aagattgatg gtaatacgtg cactatcaag acttatctga tattaatatg aatctatcta 300
 tgacacatct acttggctaa caatctctcc gaactcatca acatattcta ccattaatac 360
 aactgctcgt ata 373

<210> 50841

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-D10

<400> 50841

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 catccgtttc ccactgctcc tccgtggctc agctctgctc cctgtatcgg tctgcccctc 120
 tgccctcccg gtctctcctc ttcccgtccc gccacgcgcg tccaccaagg aagccccac 180
 gccacggcat ggggatcgtg gaggaggcgc acaacctgcg cgtggtgggc gaggggaagc 240

gcgggggtcat cgtgctggcg cacggcttcg gcaccgacca gtccgtcttg aagcatctgg 300
 tgccgcacct cgtcgccgac taccgcgtcg tgctcttcga caccatgggc gccggcccca 360
 ccaacccgga ctacttcgac ttctcccgt actccacgct cgagggctac gcgctcg 417

<210> 50842
 <211> 413
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-D11

<400> 50842

ggaaaaatcg ccccatcccc tgactatcac tggctcactg cccttcacc tacagggggc 60
 agcggccatg gtgaagaagc ccaacggtgt cgccaaggcc acggcgacct ctgctgacgc 120
 ggcagcccag ccattccaagg agaatccgtc caccctggg ttggtcaagg cctcgaagtt 180
 taagaagaga aaggtcaagg ccaaccgtgc gaagcaggca gtcgctgcag cagctattga 240
 cgaggctgcc cctgtaggtg caggcactgg tgatggcgat gcattctgcat cagcggcttt 300
 accgcaacca tccgatgttg ccgaggcatt acttgtggtg caaacgcca agtcaaccac 360
 ttttctgag gcattcacctg tggcacagac gcagaagcca gccactgatg ctg 413

<210> 50843
 <211> 414
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-D12

<400> 50843

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 aaagagaagc aatccgttcc tgaatgctcg ctccaaaaaa gtgttagttc tggatgcctc 120
 aactcagcag attggatgaa tggacctgcc aggccaaact ttctagactt ccaggggctg 180
 gactttgagg cagcatttgg gctgaggaga gcttacagcg aaggagacat tcagaacctt 240
 ggagccaaca cgctcgacc agcagcaaact gtttgtgtga ccatcagtga cctcaagacc 300
 gaagaaagga agcaaaagct ttccaggtat aggaagaaga agatcaagcg gaactttggc 360
 aggaagatca tgtacgcgtg catgaaggct ctggcagaca gccagccaag agtg 414

<210> 50844
<211> 406
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-023-Q1-K1-D2

<400> 50844

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ggagatctac ctgcactcgc tccccgtcaa ggagcaccag atcgtcgaga ccctcgtccc 120
ggggctcaag gacgagggtca tgaagatcac gcccgctccag aagcagaccc gtgccgggca 180
gcgcacccgc ttcaaggcct tcgtcgttgt cggcgatggc gacggccacg tcggcctggg 240
agtcaagtgc gccaaaggagg tggccaccgc catccgcggc gccatcatcc tagccaagct 300
ctccgtcgtc cccgtcagga ggggggtactg ggggaacaag atcggacagc cccacaccgt 360
gccctgncag gtcaccggca agtgtggctc cgtcactgtg cgcatg 406

<210> 50845
<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-D4

<400> 50845

gtcagtggaa acctgcctcc tgggtttgat tcaagtacat gccgcagcgt gtatgttggc 60
agtatccatc ttcaagtgc ggacacagta ctgcaggaag tcttccaaag cattggtcca 120
gtagaagggt gcaagctcat cagaaaagaa aagtcaccc tttggtttcat tgactactat 180
gaccgcagat atgctgcact agcaatttta tctctcaatg gcagacaact gtatggtcag 240
ccgattaaag tcaattgggc atatacaagt actccgaggg aggacacatc aggtcattct 300
aatatttatg ttggggatct ttgcccgaa gtcactgatg ctactatgtt tgcatttttc 360
tctggatact ctacttgctc agatgctagg gttatg 396

<210> 50846
<211> 374
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-D8

<400> 50846

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gggatggaag aaacatgcgc acggagctac ggacgttgct gatgagacaa cggccgcacg 120
tgggcatggg ctgcatgtca cgaccgggat gctcttcacg aggaagagct tgctatcagg 180
gacagtctta ccggatggta ccaagatctg tggacacggc ttactcgatt ccgaaagggt 240
tgaactacaa ggggatgcag atgcatctc gttcagctgc agccagctgg acaccatcct 300
gaggatgttt cggatccctc gggggtgcaa gaaggcatag caagtcggcg tcacgtccg 360
gacatgctac gctg 374

<210> 50847

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-D9

<400> 50847

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gccgggacca ccgacggcga cgatgggcgg cggcgagggc aagtccaaga aacgccgctc 120
ttctacctcc tcagcggatg aagaaggggg ggaacggaag aggcgggaca agaaggagag 180
caagaggagg agccgagacg acagggagga tgacgatgac agacacaaga agaaggggaa 240
acacatcgac aggaacaaag gaaaagagag agattcgaag gataggcatt ccaaggagaa 300
gacgagcaag agaaaagaca aggacgtgc cttcaaagaa atatccaagg atgactactt 360
tgcaaagaac aacgagttcg ctacctggtt gaaggaggaa aagggcaaatt atttc 415

<210> 50848

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-E10

<400> 50848

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atggcatgcg ctcaatgcaa gtggctaaat gggtgcagtc acagggtttc aaaaaagttt 120
acaatgttgc ggggtggaatt catgcctatg cgggttaaagc cgactcctct atcccaacgt 180
attagaggat cctcatggtg acactttagc acggctgccg gctgggaact tctcatatat 240
cttaggcatt gacgttgatc aatgcttgaa ttcagagctc aattttattt ctcatactgt 300
gtatcagaaa gttttgggac tcttagggag gaaaaatata cagctatttt tgttaaaaaa 360
agatacttga gaaattgctt tattgaacga accgtttcat cagg 404

<210> 50849

<211> 398

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-023-Q1-K1-E11

<400> 50849

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ccacgagagc aacatggggc gaggacacga catgcacggg cagcactacg gccacaacgg 120
cggcgtgaag ggcttcgtgt ccaacctcgt ccacggcggc ggcgggccatg gccatggaag 180
cggctacggc catggccatg gaaacggcta cggccatggg aatggcggct acggcggcgg 240
ccacgggtac cctcctcccg ccgccgccg cgcgtaccct catccgcacg gcgcgtaccc 300
tcaccgcac ggcgggccac ggtaccctnc tcccgcacc taccgcgcg actcggcgca 360
ctacgggcac acggggtcgt accacaccag ccacaaca 398

<210> 50850

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-E12

<400> 50850

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ccaccaccga tctggtctca ctgcatactc cttccctcgc cgtccaagag cgccggtccg 120
atgggtcgtc cgccgagcac cactggtgct ccggccttgc gggttctacc ttccgaggtg 180

gcggaatgg aggcgcgctt gctgcagctc aacaacggca tctgcaccct cgccatgctc 240
cagactctcg ccgattagtt cttcgtctcg ccgaacgcg cctgcaaggt ggccatccag 300
ccaagcagg tgtggaactg gtttcagaac aggcgttact cgcacgcggc caagaccacc 360
atggtcgtgc cgtctccacc ggctaagatg acccgcctcg tggccgatca ccaccagcac 420
g 421

<210> 50851
<211> 389
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-023-Q1-K1-E2

<400> 50851

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ccatgatggt ttcactcggg agggaaatga tcttgctgtg actgagaaga tctcactggt 120
ggaagcactg actggctata ccgcacgtgt cactacgctt gacgggcgga gcctatcatt 180
gcacatcaac tcaataatcc atccaaagta cgaagagggt atgcctggag agggcatgcc 240
agtgcccaag gacccccaaa agaagggaat tctgcggatt aagttcaaca taatgttccc 300
ctctaggctg acttctgacg agaaggccgg gatcaagagg ctattggggt cttaggccgt 360
cacctcaaat gacatcttct ntatgatga 389

<210> 50852
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-E4

<400> 50852

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ccctttatag aggaaaaaat atattatcag ctacaagatg ctcttggcaa gttggatacc 180
aaaactcgac tatgcattcg agatagtttg cttcgtttgg tccatagtgc aacagagaga 240
aagattgatg gtgataggag cactaacaag actaataaag atgaagatga agcttcggaa 300

gacgcatcta ctaggaaaac aaggtctcca aacaaggaag cagaaacaac cactaatcca 360
attgatcgta tagtggccca tttgctgttc cacagac 397

<210> 50853
<211> 185
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-E5

<400> 50853

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ggagcttcta ggtagaaaaa atcgatgtat tattaagcac ctaactgatc ttaatatata 120
caagcattta aggctaggtg ctgctttggc tggctatacc gcatgtgtca cttcattaat 180
cagtc 185

<210> 50854
<211> 371
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-B7

<400> 50854

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aaaaatatgg ctaatgaatc agcatcttag gtgaaagaaa cagaatcata tcacgctccg 120
gacaggcagg aacacgagac agatgactat caacggttat acataactct agcactacgc 180
aatgggacctg atgagtacat tcatactagc aactggaatg cctatgcaag cgatgccgat 240
tgtagggtccc gtacatcaaa catttggaca cttatgaacc taggttatat ggccctggcat 300
acacgtatag tctacaccct gcagatgact acatcttgtg cctgacggac ttgaacatgc 360
gacctatttc a 371

<210> 50855
<211> 388
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-023-Q1-K1-B9

<400> 50855

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agcccgctcc aaagaaacag aagaaagaag attaagcaac atggagaagc tgcagaaagt 180
tcttcctggt tgtttaggat tctgttccaa cactcgctcc acatctgaac aaatggcacc 240
agtataggaa gttgttggca acttgttacg agaaaagaac atagtcggac tattgctata 300
taacaacatt tctgtgctgn tgtttttagc acttagcagt gtaccatgac ttgaatagtt 360
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<210> 50856

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-C10

<400> 50856

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cctgtgcgtg ttactgtcgc aatggcagga ggtctcttct ccatggagca cccatgggcc 120
tctgtttttg gcattctagg tacgctgctg cctgtgctgt gttgtgcacc aggaatgctg 180
gatttcgttc tcaccgtacg atacgacttg catgcatggc agcatgatcg atggcatgat 240
gcgtgccaaa cgattgctcg tcgtcgtcat catcatcact catcagtgtt ttttttacac 300
cgagtgaaaa tattcccaca ggtttactga cagaaattcc catatgatat gtatcttcct 360
ttgtaattt cctgcaggca acatcatctc atttctggtg ttctctgcac cagtgtaaagt 420
gcact 425

<210> 50857

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-C11

<400> 50857

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 ctctgaagc agacttcccc gctggcgctg gaggagatca agctcaagtt cattgacaca 180
 tcgtccaaat ttgggcacgg tcgcttccag actaccgatg agaagcagag gttctttggt 240
 aagctcaagg cgtaagggtg tgcggtgcag cgaaagtccc atttgtcaaa atcatcaaac 300
 tgtgaaacct ttgtttgtta ccttgctgta ccaagttttg tagcatgatg atttgggagc 360
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 tattt 425

<210> 50858
 <211> 419
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-023-Q1-K1-C12
 <400> 50858

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 gagatcaaga gtaaagagtg tggggagggg aaggacgcga tatcggggga ggatggtgct 180
 tgtgcttgcg ctgggggatc tgcacatccc gcaccgggtg cccgacctgc ccgccaaatt 240
 caagtccatg ctctgtcccc gcaagatcca acacatcatc tgcgctggca acctctgcat 300
 caaggaagtt catgactacc tgaaaagcct ttgccctgat ctccacatta ctggaggtga 360
 atatgatgag tatgctcgat acccagagac taagacactt tacaatggtc agtttaagc 419

<210> 50859
 <211> 325
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-023-Q1-K1-C3
 <400> 50859

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agtagcagct gccagctac cgcaccaacc cctgtggcgt ctacgctggc attccgccct 180
actactgatt catgatattt gggaaatctc ctctatccat ctctctctat ctatatatgt 240
aataatgcag taagacgaca cacattatca tgtgtggtat gaccaataat atatgcatgg 300
gcataataaa gatttggggt taatg 325

<210> 50860
<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-C4

<400> 50860

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gcgccatgtg cggcgcgctgc ttgccatcg cctgcgacgc gggcgcggtcc cagtgggtgca 120
agccggggcgc cgctccgctc acggtcacgg ccaccaacct gtgcccgcgc aactggggcgc 180
tcccggggcga cggcgggcgc tgggtcaacc cggcgcgccg ccacttcgac atgtcgcagc 240
cggcggtggga ggccatcgcc gtgtaccgcg ccgggatcgt gcccgtaac taccgccgcy 300
tcccggtccg cagggccggc ggcgtcaggt tcaccgtcca gggcgcgagc tacttcgagc 360
tggtcaccgt cgccaacgtg ggcggcagcg gcgt 394

<210> 50861
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-C7

<400> 50861

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cggcagcaga ggggagcaga gagatctcat tctccgatcc gaccagtcca ccatggcgga 120
ggatgctacg agcagccacc cgtcacgcta cgtgaagctc accagggacc aggacgtcct 180
cgccgaggac atgcgccccg gcgagctcaa ccagccagtt cacgtcccgc agctcgaagg 240
ccggaggtgt agcgagtgcg gtcaggtcct gcccgagagc tacgagccga ccgccgacga 300
gccctggacc accgggatct taggatgcac cgatgaccca gagacctgcc gaactggatg 360

gttttgcccc tgcgtgct

378

<210> 50862

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-C9

<400> 50862

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ctccgaagat tctcaagacg ccctgatgg ctccccgcgt cgctccgct ctgctcttcg 120

tcgtggccgt cctcgtggcc tccgcggcgg cgcaggagtc catggcgccc gcgtctgctc 180

cggcgccggg accggtcgct ggcgcgccct ccgctccggc ctccgctgtg gccgtggtgt 240

cgtccgcact gctgtccctc cttatgacgg ccctgatgca gtagaagtat catactagat 300

ttgagcggga atttggttca gtgttgctat tctcattct ttttgatatca tatatgtctg 360

cgacatttat atatatgaat aaagttggat gatctgctgc 400

<210> 50863

<211> 396

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-023-Q1-K1-B3

<400> 50863

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aaaattgaca aggataaggt aaaagcagct ttggagaagc gaaggaaatc gaaaggtggt 120

tttgccacga aggtaaatgt gattgatgat gatgatctac ttgagagaga gctagaacaa 180

ggtgttgagt tggctgttga gtttgagaag attaatcaag ataagaagca gaactcgtcc 240

gatggtagca tgcattccacc agaccttgaa aacgctgacg aattaatgga gaatggccac 300

catgtcaagc agagtctacc aacgacagct gaagacatgg gctgtccgat ggacagtaaa 360

gaacgacatc ctncagcact tcataagcaa aatgat 396

<210> 50864

<211> 408

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-H9

<400> 50864

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 gagctcaact acccgtcgct ggtggtgaag ctgctgtccc gcccggtcac cgtccgcccg 120
 accgtgacca atgtcgggaa ggccagctcc gtgtacaggg ccgtggtgga catgcccagc 180
 agggccgtgt ccgtggtggt ggggcccccg acgctgcggt tgcacagggg gaacgagaag 240
 cggagcttca ccgtgacggt gcggtggagc gggccgcggc ccgtcggcgg cgtcaggggc 300
 aacctgaagt ggggtgctgag ggatcacgta gtccgcagcc cgatcgtgat accgccggcg 360
 aaggccaccg cgtaggcgta gctcccagcc caaatgcca attgatga 408

<210> 50865
 <211> 334
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-A1

<400> 50865

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 gcactcatgg ctccaggcga tatatgaccg aatgcaggct tgagggatag aaccatcgat 120
 aacaagcatc gagcatcttc tgattaggta tcttctgcag gcttttttac gttcaagaga 180
 taaattaaag cctctagaac tgaacggtgc atatatacaa tgttggacgg caggaaggct 240
 cttgattgct gatctagcat gatcgtagc ctgcggtatc agaaacacga ttgactcaga 300
 gcatttggtc aatgagatct gagaggcttt aaat 334

<210> 50866
 <211> 408
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-A11

<400> 50866

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 aggatgaaga ctaccatggc gaagaccaat atgataaaca ggtgaagcat gtacatgccca 180
 acgggggattt tcaacacctt ctaaaatgaa acttctggca acgcttaaata ccctaaatgg 240
 ggagatactg gctggaattg gtggaagttg ggggtgctgag aagcttgacc ctcgggcgta 300
 ctgaagttgc ttctgtctgg atcacctttt ttttcgcatt atgtgtgcta tactctgtaa 360
 attatcaaac tggctttctc aatgcctatg taatgaaccg ttgagtga 408

<210> 50867
 <211> 401
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-A2

<400> 50867

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 gaccatagcc ctttctattc tgaagcaggt tatggaggag aaggtgaccc caaacaacgt 180
 cgatattgcc aaggttgctc ccaagtacca cctctacacc cctgccgagg tcgaagccgt 240
 gatcgcgagg ctgtgaaacg ctttcggagc tcgtgttatt catgtcatca atcggtaata 300
 gacgatacct gtacgaagcg tggacatctt ttgttcttga ttatggctgt catcgtactc 360
 tgttggttaac tccacaagga cagtcgatgg tactttgatt c 401

<210> 50868
 <211> 386
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-A3

<400> 50868

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 ttgtcgtaaa cctcaagcgg cagcagctgc agaagacgcc gccgccgacg ccgcctcgtg 180
 cctcagttgc tatcaggagg aagaggtacc cagctaaccg gccctgctcg agtttcccaa 240

gcttcctctg ctcaagtttc agcagcatca gcgacagttt cctgcaatca cacaagtaca 300
ctgtacacgt acgcaggctg aggctgatga gggtgagagc cggagcagag gccatggaga 360
tggtgaacct gaagctctac ctggag 386

<210> 50869
<211> 223
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-023-Q1-K1-A4
<400> 50869

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tataggggga cttgaatgtc tggaatgcta cgggtataacg cacatttggg tgcaatgtct 180
gttgcatcgc tgtctgaatg acatcgcttg tacattttatt ttc 223

<210> 50870
<211> 374
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-023-Q1-K1-A5
<400> 50870

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actcggagga gccggggcgg cggacgcggc gcagcagcag cagctggcgg cgggtgatgc 180
tgcggtggcg cgggcggcac ggcccatcga gacgtctgtg ggcgcggcgc cgctggtgct 240
gtgcgtggcc gtcatgaccc ttatgctacg tgaccagcag agcaatgagt acggcaccgt 300
aggctactcc gacctggggg gcttcaaata cctcgtctac gccaacggac tgtgcgccga 360
ctactcgtg gcgt 374

<210> 50871
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-A6

<400> 50871

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ctacgtgcgg gcggcgctcg cggaacctgg caaggaggag gactcgctcg actgtcgacg 180
tcacctacta ccggagctac aacgaaggca cccccgcat gcacgccgac gtattcgacg 240
agctggagca gatggcgctg cgcaagtacg gtgcgctccc gactggggc aagaaccgca 300
acttcgcctt cgacggcgctc atcgccaggt accccgcgctc agcgcggtatt ctgtacgaga 360
acgacaggta cgacccggac 380

<210> 50872

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-A7

<400> 50872

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atccagcaat ccagtaacg gatgctgagc gtgagtcaac aacgcacgac ctttgaggga 120
ttaaaactga agccgaaaca cctgcagatg aactgtcgg cagcgctgta tatatactca 180
gaggatatca aactacaaa gatcccatct taccgacat gatgcagagt accaagcttc 240
ctgtgctcaa gtacatgtag catcaatcac agttgcctgc aattacacaa gttcactgta 300
cacgtacaca tgcagaggca ttacaagttg agagccggag cacaggccat ctagat 356

<210> 50873

<211> 410

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-023-Q1-K1-A9

<400> 50873

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ctgcctgtcc gcgggctcga ggagccgcgg cggggggcca ggcccaggcc gaggcagccc 240
tgggaggagg aggcgggggc gctgctgctg cggtccaca aggggaggta cctnccgggc 300
cccgaacctct cgtcgccgcc gcacgtgtc tcacccgacg ccgtcaagac cgccgccgag 360
tggttcgggc atgaccacca gcccgtcgcc aaatggctgt cagggagtga 410

<210> 50874

<211> 204

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-B10

<400> 50874

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gaatataaaa aaacaaataa aaaaaaacac atacaatcta agaaataaaa catactatag 120
cagaacctgg attcaaaca ttccatctaa cataatacac aataacaagt tatacattct 180
tgacgttaat gctgtttatt ttct 204

<210> 50875

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-B11

<400> 50875

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gcaatgcaag gcgctgtctg agacttcaga agttctgaag ctgcaggccg gagctagcag 180
ggcctctttg ttctgctcga tccagtttgt gctgctgtgc atagccattg ggaccctcct 240
cgttcgcttc ctgtcctctt ctccggagat tgtacctact tgaggttaga gaattatgcc 300
agtcagcctt tatgtaggcg ttgttgaacg gttgtttact gtaacttatt agggcatcaa 360
tcgccttaca gattttcggt tttgtacca tcaactcgat tttgctagta atttctttat 420

gaata

425

<210> 50876
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-B12

<400> 50876

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agaagctcga caatcactac aaaatggatc tgaccccaaa gaaagaagcc atcaaagtta 180
tgatccaaga cgagttgacc aagctatcag aggaggatga agaaggagag ggagacgaag 240
acgccgggaa gaaacagcag cagcctcagg cgcaggagat cgaggcatga gggatccgcg 300
gaaccccgta gctgtagtag ccactgttaa ttatcctgta cttagtgcgt atgtgtcgca 360
tgtacaggca tcctttgttg atttcagcca ccaacttgag aacctcacc cctgattgtg 420
tatgctaa 428

<210> 50877
<211> 335
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-H8

<400> 50877

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cgggggcggc atgcacggcg aggcgcagca gcagcagaag cagggcgcca tgatgacggc 180
gctcaaggcc gcgacggccg cgaccttcgg cgggtcgatg ctggtgctgt ccgggctgat 240
cctggccggc accgtgatcg cgctcacggt ggccaccccc gtgctggtga tcttcagccc 300
ggtgctggtg cggccgccat cgcgctggcg ctcat 335

<210> 50878
<211> 393
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-F8

<400> 50878

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gccaccgtcg gcatccaggg catcgcttg tccttcggag gaatgatctt cgcgctcgtc 180

tactgcaccg ccggcatctc cggaggacac atcaacccat ctgtgacttt cgggctgttc 240

ttagccagga agctgtccct gactagggcc ctctttctaca tcatcatgca atgcctgggt 300

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<210> 50879

<211> 395

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-022-Q1-K1-G10

<400> 50879

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gtggtggagg tgccggcgga gctggtggcg gcgggcagcc ggacgccgtc gccaagacg 180

aaggcgctgc agctggtggg gcgcttcctg gccgcctccg agccggccgt gtccgtgcag 240

ctcggcgacc acggtcacct cgcctactcc cacaccaacc atgcgctcct tccgccag 300

tcgttcgagg ccaaggacga ggtgttctgc ctgttcgagg ggggtgctga caacctgngt 360

cgtctgagcc agcagcacgg gctgtcaagc aagg 395

<210> 50880

<211> 324

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-G11

<400> 50880

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tcgactacaa acttacgtat cctagtggca cggcgactgc ttatctcatc aacggtttcc 180
acacgccaga gggtgccaag cttgcaaaga aacaagtga gactctgggg aaattcttct 240
tgatgagctt cctctggggc ttcttcaggt ggttctacac tgggtggagat aattgtggat 300
tccagaactt ccctacatta ggcc 324

<210> 50881
<211> 225
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-G3

<400> 50881

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tttctgaata ccctttgtac tcaaccctca taactcttca tgggggaact cttgtcccct 120
attaacttaa tgaaaaaacc ggggtgggggt tggagaactc tgatcttaaa aagcaactgg 180
aaaatgctcg gtcaaaaagc attgatggta aggccttggt gggtta 225

<210> 50882
<211> 326
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-022-Q1-K1-G5

<400> 50882

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tgccagtgat ctactactcg gacgacaaga tgctgcagtg ccgggtgttc gcctacgccg 180
acacgcagcg ctacaggctg ggtcccaact acctgatgct gcccgtaac gcgccgcgct 240
gcgcgcacca caacaaccac tacgacggcg ccatgaactt catgcaccgt gacgaggagg 300
tggtactacta cccgtccagg cacgcg 326

<210> 50883
<211> 309
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-022-Q1-K1-G6

<400> 50883

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gcaccgacgc caagaggaac gccagggact cccatgtgcc gatcctcggc cctcttccaa 180
tcgggtttgc cgtgttcttc gtcacactgg ccaccatccc tatcaccggc accggcatca 240
accccgcgcg gaggccttggc gccgncgtaa tttaacaacca gcaccatgcg tgggctgacc 300
actggatct 309

<210> 50884
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-G7

<400> 50884

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tcgtggacac gtacggcacc ggcgcgatcc ccgacaagga gatcctgaag atcgtgaagg 180
agaacttcca cttcaggccc ggcatgatca tcatcaacct cgacctcaag aaaggcggca 240
acgggcgcta cctcaagacg gcggcctacg ggcactttgg gagggacgac cccgacttca 300
cctgggaggt ggtgaagccc ctcaaggcgg agaagccgtc ttctgcatga ggcgccctct 360
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<210> 50885
<211> 320
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-G8

<400> 50885

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aatgtccgcg acaaaggtta cctttccttt agtttggacc aatacctgct gcagccaccc 120

tctgtaccgt gagtctgagc ttatccagga gaactacctt ggtgtgagaa atgcaacaca 180

gaggaagcta ctggatgagc tgggcatccc agcagaagat gcccagttg accaattcac 240

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tgactacctg ctgttcacgc 320

<210> 50886

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-H10

<400> 50886

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cgctgcccc acgccacca cccaccccg ccccgcccc taccgcgcgg tgcccgagac 120

ccagaggcca gaccctttc ttaccttcc ttcccatcgc aatcgcaagc ccccggtctc 180

ggcgctcggc ggtcgccag gttcgggaga tcaacttcgtc gcggcgagga gggagggggt 240

cgccgctagc gcgcggcact tggatgagaa gggcaacggt ggaagaggat gcggaaggcg 300

tacagggact ccatcaaggt gctcgaagct gacatccaac acgccaacac cctggcctcc 360

gagttttccc g 371

<210> 50887

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-H11

<400> 50887

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acggatggaa ctggatatac aaaactttat gcagaaccct cagctgcagg agtttgaatt 120

ccagaacttt ccgacttctt acctccgctg tgctgctcat cgtgttgac aacattatgg 180

cttagagact atagtagcag atagtttagt agaaggctca gttagcagga ttgttgcaag 240
 aaaaacagca gaaagcaggt atcctgcaat ttttttatca gaagttccta gcaatcaagc 300
 aagaaatgat catgaaacag ctgagaagct taagtttgtc atttatcaaa ggcccaaagc 360
 attccaaaat ggaagcgctg attct 385

<210> 50888
 <211> 408
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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<400> 50888

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 tggcattagt atcaatcttg tcgaagtcac gtggaaatca aaactcaagg cacagttccc 180
 tagtccaaat gaatattcat ctttcatggg tgattttctcg actgcaactg gaattgcaac 240
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 aaagatcacc cccaccgttc tgttgctgac tgggtgttga ttcttctctc tgattttgtt 360
 tggacagcca ctgactccta tgcttgccac tatgggtatg acccccct 408

<210> 50889
 <211> 92
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-H2

<400> 50889

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 cggggttccg gtttgtgggt gaaccgatcc aa 92

<210> 50890
 <211> 356
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-H4

<400> 50890

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cgaccaggcc gtcgagctcg cgcaccaggc ggtctttcttc aaccagggcc aatgctgctg 120
cgccgggtcg cggacgttcg tgcacgagcg cgtgtacgac gagttcgtgg agaagtccaa 180
ggcccgcgcc ctgaagcgcg tcgtcggcga ccccttcatt gacggtgtcg aacaggggcc 240
tcagatcgac ggcgagcaat tcaacaagat cttgcggtac gtccagtccg gcgtcgacag 300
cggtgccacc ctgctcgccg gcggcgacag ggtaggcgac aggtgcttct acatac 356

<210> 50891

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-F7

<400> 50891

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aggagcttgt cctaattgctg caaaaggctt ccgtctccgt cgaagagatg gcaggggttcg 180
tttacaatcc gttgagtgga gaatggtccc tgtcagatga tatcagtgtg aactacattg 240
cttttggcgt caagaagggt gaagcatcat cgacaaatgg cagagatgca agtttatcat 300
agctgaagaa aaacacgtga ccttgaattg tcgggcatca ttttcagagg accaattcat 360
gtcactgaaa tcttactgct aaggatgca 389

<210> 50892

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-H5

<400> 50892

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tactgatgct tcctctcact ataagcttcc gttctcaaga actgtctaca ttgagaaaac 180
 tgatttttgcg cttaaggact caaaaagacta ctatgggctg gcccttggtta aatctgtcat 240
 gctaagggtat gcgttcccca taaaatgcac agacgttatac tatggtgata ctctgatga 300
 tattgttgaa attcgagcag aatatgatcc tttgaagact tctaaactta aggggtgttct 360
 gcactgg 367

<210> 50893
 <211> 390
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-H7

<400> 50893

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 taaaaaaaaa aaaaaaaaaa aaaaatcttg attttccagt cttaatttaa ataaattaca 180
 ataagcaata acataaaata acataaaaaa aatggatatt ttaacaaata cacattttga 240
 acgaacaaca tttaaaaaac taaaattata taaaaaccta catatgataa ttcacaattc 300
 atgtttttta acatatatca cacattgttt acattaaaaa atacactatt gcctactttt 360
 taaacattca cacaaaacat ttatatttta 390

<210> 50894
 <211> 299
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-022-Q1-K1-D6

<400> 50894

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 tcttcgtcgt caaggttccg gcggcttcca gtgatgtgtt cgccacagaa cgagcagcac 180
 ctgctgcagg agcaaact taacaacaat gctcgtcctc cagagaagag gcagcgggtt 240
 ccgtcggcgt ataacagatt catcaaggaa gagatacgca ngatcaaagc gaacaacc 299

<210> 50895
 <211> 388
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-D8

<400> 50895

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tttacaacaa cgtgactact aaaaaaaccc tgtcaccaaa caaattaatc ttgtagcaca   180
tcatcctttt ttcagctgct gtcataacaa agaagacgcc accaatgatc gttcttaaca   240
acagctgagc atgcttaatg aataatacga cccgcgctgc agcgcacatc taaccgcggg   300
tggttggtt actaccagca gaatcaccac tatagtcagc agcgtactag cgcccgttc   360
ttctgctttc cttcccttct ttgtcacc                                     388
  
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<210> 50896
 <211> 377
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-D9

<400> 50896

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catggcgaag ctgcgtgagc aggcggagag gtacgaggag atggttgagt tcatggagaa   180
ggtagccaag actggtgact cggaggagct cactgtggag gagcgaaacc tcttgctctgt   240
tgcatacaag aacgtcattg gagcccgccg cgcctcatgg cgcacatct cctccatcga   300
gcagaaggaa gagggccgag gcaatgagga ccgagtaaca ctcatcaagg attatcgtgg   360
caagattgag actgagc                                             377
  
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<210> 50897
 <211> 241
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-E10

<400> 50897

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ccggcgggtg gctgctctac tacgcgcttg tggaagagga gatccagggc tccgagttca 180
tctacatggt cgacgacctg gccgtctcca gcgtgatact ggggtttgat gctcccagga 240
a 241

<210> 50898

<211> 381

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-022-Q1-K1-E11

<400> 50898

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tcttgctgcg gcggcaagtg cggttgcggc tccagctgct cctgcggcag cggatgcaac 120
ggctgcggta tgtaccctga cgtggagacc gccgccacca gcagcgtcaa gaccacggtc 180
ctcgccgcgc cgaccaccaa ggccagcgcc ggcggttcg aggcggccac cgagggcggc 240
ggctgcgact gcaacacctg caagtgcggc accagctgcg gctgctcctg ctgcagctgc 300
aactgagctg gcccggcccc gcgatggcgc acgagagtcg agaggaggag gacgactacg 360
aggcgtataa atataatagc g 381

<210> 50899

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-E12

<400> 50899

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gctttcagaa aatttggtgc atgctgctgt acggaggaag tctgttaaca tggtagatt 120

tctgctgaga tacagaccaa acaaaaaactc caaggggact gcacagacat acttatttat 180
acctgatgct ctggggccgt caatgattac cccctccat atagcagctg ccactagtga 240
tgcagaggat gtgttgatg tgctgaccga tgatcctgga ctgattggaa ttagtgcttg 300
gagcaatgca cgggacggaa catgttttac ccataagat tatgctcggc agagaggcaa 360
tgatgcttac ctgaatctgg t 381

<210> 50900
<211> 374
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-E4

<400> 50900

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ggaatctaca aagattgtac tctgtgctgt attgctgtgg aatgctctac ccctgtaaca 120
gtgtctaagg taactgcttt tgcccatgtt ttagggcttc aagagataat ggtaattcct 180
tgtctattgt tgtgatgac ctaattttat ccttacagtg ctcatctttg tcttgagaa 240
ggaggagccc tttcccatcc ccgagaaggc gtgagagctg ttctccatct cctaggaggc 300
gcaatagtcc acctccatca cggaagcgtt acagaagaaa gagcagtcgg agtgtcatta 360
gctctccagt tact 374

<210> 50901
<211> 336
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-E5

<400> 50901

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aagaagtcaa acatgacaat actgttacat gggtggcctt ttggaacgat ccaattaacc 120
caaaggattt caagtatgtt ttctggcag caagcagctc actgaagggg caaagtgaca 180
aagagaagta tgagaagtcc agaaaattga agggtcatat acaaagaatt cgtgagaatt 240
atacaaaaga tttcaaaaac aaagatgtga cgaggaggca aatagctgtg gcaacatacc 300

ttatcgataa actagccctt atggctggca atgaaa

336

<210> 50902

<211> 160

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-E6

<400> 50902

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tgcaccatgg ctgccggcgg cgacgacacc accatcgcgc aggtccacag cggcatcgac 120

agcagcaaca agacgctgct caagaagcga ggccctctac 160

<210> 50903

<211> 337

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-E7

<400> 50903

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cgtcgcctgc gccaaagtga aagccatcac cgaagcggag ctcaactacc cgtcgctggt 120

ggtgaaactt ctgtcccatc ccatcaccgt ccgccgcacc gtgaccaacg tcgggaaagc 180

caactcggtg tacaaggccg tgggtggacat tcccagggcc gtgtccgtgg tggtgcggcc 240

cccggtgctg cggttcgcca gggcgaacga aaagcagagc ttcaccgtga cggtgcggtg 300

gaacggggccg ccggccgtcg ccggcgccga tgggaac 337

<210> 50904

<211> 294

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-E8

<400> 50904

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ccacaccctc cataagaaca gttatttatc ctaacccaaa cataatccat aacactatca 120

ctacattact aactctaatac cacataaaaa caataactac atcattcaca ttacgaatct 180
 cattaacaaa ataacacaca cccacttcct tctacaaaac cacaacttac atccccacta 240
 attaaacact tattcttcta catcctatac taatatttta aacacccaaa aata 294

<210> 50905
 <211> 401
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-E9

<400> 50905

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 aatctgaaat gagctcaatt ggggagttat tgggtcatccc attcctgtca aagtttccta 180
 tacctttctca tgggtgaggat gcatcatcag tagcagtgcga gaattatttc ggtgttttga 240
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 tcaggaaccg gattctccca ttatattctt tggatccttg cagcatgcag cccatatttg 360
 atttcaacgg ctaattgggt tattggtcag cttgcgatat g 401

<210> 50906
 <211> 396
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-D11

<400> 50906

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 aagaaagggg gaagatctct tctatgagca caccttgtct ctgaccgaag cactatgtgg 180
 gttccaattt gttcttacac atctggacaa caggcagctt ctcatcaaat cagaccctgg 240
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 gaggcctttc atgaagggga agctgtacat ccatttcacg gtggagttcc ctgactcgtt 360
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<210> 50907
<211> 249
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-022-Q1-K1-F3

<400> 50907

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tanaggagag ctgtctatca ttatattaaa gaacatgggt aggaaacttt acacacacat 120
ttggttacaa gatcaccctt gaagccaaag ataactaaac gaccttgact aacaggactt 180
tggttacttg tggattaga ctgttatctg gctgggtcat aatccatatt ctgacangat 240
ggattcatt 249

<210> 50908
<211> 72
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-F5

<400> 50908

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caacggaaaa at 72

<210> 50909
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-F6

<400> 50909

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gaagcggctg atgcgggact tcaggcgcct gcagcaggac ccgccgccg ggatcagcgg 180
cgccgccgac gacaacaaca tcattgctctg gaacgccgtc atattcgggc cggatgatac 240
gccgtgggac ggtggcacgt tcaagcttac ctgacgttt acagaagatt acccaaaca 300

gccaccaact gttcgatttg tctctaggat gtttcatcca aatatatatg ctgatggaag 360
catctgtttg gatatactac agaaccagtg gagtcctata tatga 405

<210> 50910
<211> 316
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-022-Q1-K1-B1

<400> 50910

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atgtgggctg ctggttgcca aaaggctctt gcagaagttg gacccaatgt tgtctggtgg 180
attgctgcac agagcgtggt ctaccactta tataaccagg tgtcctacat gtctctcgat 240
cagattttctc cattgacatt cagcattggc tatacaatga aacgtatatc acggattggt 300
tcatcaattt atatct 316

<210> 50911
<211> 194
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-B10

<400> 50911

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aggatggagaa ggtgggtggc tccgaccgag tggatggactc cccctgctgc ctggtgaccg 120
gagagtacgg ttggaccgcc aacatggagc ggatcatgaa agcccaggcg ctgagggact 180
ccagcatgct tggg 194

<210> 50912
<211> 280
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-022-Q1-K1-B12

<400> 50912

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aancttaatn acttctctta attactatct atcaaagaat ttctctttaa ccgtcatctt 180

cacaaacctt atttaatttc atacaacaaa aaaaaaattt cctccctttt taaatttcca 240

atttatatta cccttccttc caacaacaaa accttttttt 280

<210> 50913

<211> 263

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-B2

<400> 50913

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catcaaggaa gagacctttc agcgacgtca accgaaaagg tgcaggtgct ttacctaatg 180

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ctctctgctc taatttttag ctc 263

<210> 50914

<211> 301

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-022-Q1-K1-B3

<400> 50914

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gattccacct cctccttctc tcaactggtc tcatctacat aaagatgaca tctccttcta 180

ttacaaattt gttaccacca atgaagtcaa ttctttttta ccctcctcat ctattaacga 240

cctttcatcg acgtcaaccg aaaagggttca tttgctttac ctaatttcag tgctacatac 300

<210> 50915
 <211> 417
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-B6

<400> 50915

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 gtccatcatca tcattcatat ttcatttcac taaaggaaat gataaggcag actgggattc 180
 ctgcaatctt tacggacttc tgtgaagaag ctgcacatct agcatcctgc tgcataagct 240
 ccataactgg tcaaccctt aaaattccaa tccaggtaaa tcctttcagg cagccagttg 300
 cagcggaaaa caatgcatta tacgtaccat gttattcaaa ttgctttggt tttgggatgt 360
 aaaattgccc tgtcaccagg aagtatatat agagattgat ttgtcaagaa atggaat 417

<210> 50916
 <211> 394
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-B8

<400> 50916

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 aatctccgtc gggactgcat gccacaatac ctgctgtctcc catttggaaca gtttggtcga 180
 gctaaagata tatatcttcc aagaaattat tacacttgac tcatcacaat cctaaaagat 240
 tattgttgca gagaaggaag aaatagagaa attcaattaa atgatctgca acttaaaaga 300
 gttctcatta ctgctcaaga catgggaaaa aatatagtta caagtttaag agatactcac 360
 atcatgaaga gtttcaagtc tgaatttaaa ctct 394

<210> 50917
 <211> 375
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-B9

<400> 50917

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ccgttccccca acctctcgtc tgctgcctgc ctgcctgcct gcctgcaaaa aggagtttgt 120

catggcgtct aagcgcattc tcaaggagct gaaggacctg cagaaggacc cccccacatc 180

atgcagtgcg agtctctgctg gtgaggacat gtttcattgg caagcaacaa ttatgggacc 240

acctgacagt ccctatgctg gtggtgtttt tttagtgaac attcatttcc cgccagatta 300

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caatggaagt atatg 375

<210> 50918

<211> 207

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-022-Q1-K1-C1

<400> 50918

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gatcgattgt cctcaatagt ttcaacattc nagtaactgt tgcgggaggt gccatggaag 120

cattggaatt cttaaagtcg aacaacagtc atgttgacct tattttgact gactactgca 180

tgctgatata gactggctat gatttgc 207

<210> 50919

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-C11

<400> 50919

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tctatggacg cgcgccggtg ggacgagtcg tcgtaccgcc gcggcatcct ccgtgccccg 120

gacctctcgt cccgcaccct cttccgtgcc gtcttctttg accacagcga cgaccgggat 180

accgacatcc tactcgccgc cgctccagc gacggctccc tcgcttcctt ctccctttca 240
tcttgcatct ccgcatgttc cgctacctcc cagggtggaga ccgccgccac tctggtagat 300
cctgtctgca tcgtgcaagc gcacagcgga cctgectacg acgtcaggtt ttaccccgat 360
caacagcagc c 371

<210> 50920
<211> 294
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-A5

<400> 50920

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tatgctttca tagaggagaa acccttgaca agcgacggta ccaatctggg cgcttctaata 180
aagagatgag ataccagga ctggcgagc ctgaggtagc ttgggtagta atatggaaaag 240
catattgcta gcggctcgac aagtttagtt tctttttttt cccttactga cact 294

<210> 50921
<211> 251
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-022-Q1-K1-C5

<400> 50921

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ccttgaggga ccggactaca tggctccgaa cgcaaggagg tccatgctgg angagctgga 180
ggggatgctg gagatcgtgg agcctcagcc gccggggaag ccgaggacgc ttagccgcag 240
gaggttcgat c 251

<210> 50922
<211> 361
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-C8

<400> 50922

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ataggaagaa gagagcagag gaggatggct cgtacgaagc agaccgccc caagtccacg 120
ggaggcaagg cccccgcaa gcagctcgcc accaaggcgg cgaggaagtc ggcgccgacg 180
accggcggcg tgaagaagcc ccacaggtac aggcccggaa cegtggcgct gcgcgagatc 240
cgcaagtacc agaagagcac ggagctgctg atccgcaagc tgcccttcca gcgcctgggtg 300
cgcgagatcg cgcattgactt caagacagac ctccggttcc agagccacgc cgtgctggcg 360
c 361
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<210> 50923

<211> 287

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-C9

<400> 50923

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tcagatacac agaattcatc gacgatctga cgacacaagt tcagaacaag gtcattccca 120
tgagcagaat cgacgacgcc gtctacagga tccttcgtgt caagttcacc atgggtctgt 180
tcgagaacct ttaccccgac tctagcctcg ccggcgagct cgggaagcaa gaacaccggg 240
aactggcgcg cgaagccgtc aggaaatccc ttgttctcct gaagaac 287
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<210> 50924

<211> 152

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-D1

<400> 50924

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cagcgttctc gccgtgcgcc tggctctgtc agctgccatc tcctgtgcaa tgcatatacc 120
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ctgccccctgc gcggtgctca acggcttgta cg

152

<210> 50925

<211> 422

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-021-Q1-K1-H10

<400> 50925

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gggttccaag gccatcgagg atgaggactt cgtcgacgcc gtagactgtc tcagccgagc 180
gctcgagatc agggcttcac attatggaga gctcgcaccg gagtgtgcca gcacatactt 240
caaatatgga tgtgccctgc tatacaaagc tcangaggag agtgatgttt tgggaaatgt 300
tcccgaagagc ttgccaaatg aagactcagt gaagagtaca gctactaaag atgacagtgg 360
aacctcaaag gtctctggta ccgatgnoga ngatgctgcg tcatcagaaa aaagtgatgc 420
tg 422

<210> 50926

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-H11

<400> 50926

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cgtgctcggc ggcacgttcc tgggcgcgcg acaccacgcc ccacccgtca gcgacctgga 180
gacccgactg ttggcgaacc agaaccagac ccagaccag acgtgtcccg agttcaaccc 240
gaacgtccgc tggagctgca tggactgcct caaggccgcg tccacgtgcg gcttctgtgc 300
tcaccaggga gacaagcttc ttccgggggc gtgcttggcg ctgaacaacg cgtctcggca 360
tgcggtgccg gcagaccacc gggagttcta cac 393

<210> 50927
 <211> 379
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-H2

<400> 50927

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tgggaagtgg gattgatggt gaagagcagc acggtgtccc ggaccaccgt ataacgtttc 180
gaagagcaag tctccacata ctttctgagg ccaaaatttc gattgtgatg cttaatatagat 240
ttgtgtccat ctgtactgat atttataact gatctagtta cagccgtata attatgaatc 300
atcttatcat acaccgatta tggcttcatg atgacctgac tgtgtctgaa attcctgagt 360
tggtatttct aacggaaac 379
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<210> 50928
 <211> 436
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-H3

<400> 50928

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aggaggcaac tccaacttcc agtgaacatg accacgagta ctaagttggc acccctgttt 180
cagagtagcc ttctgcaaga gatggtgcgc cgtagcctag cataaatcga acccttgttg 240
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actatgcttg gtgtctgagt gatgtacgtg gaattctgaa actatggatc agctcttggtg 360
tgcacttgct gaaccagata ccagcagta agcttttggt tgttcgtttt gagtgggttg 420
ttaaccacat acttgg 436
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<210> 50929
 <211> 410
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-H4

<400> 50929

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tgctcagctt ggcgctctac aaccaacaca ggctacactg aacatgcagt acagggggcat 120
gcatccatcg atgcaaatga atcatggaat gggcatgtat tccaaccaa cggttcggagg 180
atattatgga atgaacaaa cacagcttta cggcgttcat atgtctggtt atggatatgg 240
tcagcaatct gggggctact atattccgaa tgctgcatat gcctatacta gtgcaaacga 300
acttgcccag aggatgaatg acctttcagt tcaaaacggg gatccaaatg gagccgcagc 360
aaataagcag agcagacctg aggatgcact ctttggtgat ctcttgagca 410

<210> 50930

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-H5

<400> 50930

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aatcaggctg atgtcccga gatctaccgc ctgcggcca aatgaaggg tgtcttcac 120
aaccctgctc tcgttgagcc gttcggctct accctgatcg aggctgcagc acacggactt 180
ccaatagtcg ctaccaagaa tgggtggccg gtcgacatta caactgcact gagcaacgga 240
ctgctcgttg acccgcacga ccagaacgcc atcgctcaag cactgctgaa gctcgtagca 300
gataagaacc tgtggcagga atgccggaga aacgggctgc gaaacatcca cctttactca 360
tggccggagc actgccgcac ttacctcacc agggttgctg ggt 403

<210> 50931

<211> 425

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-021-Q1-K1-H6

<400> 50931

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gctttccctg gttggcctcg ccgtgagcag ccccccgat atctgcgcgc gctgccggct 120
cgctgttttg ggaagcccag tggacaacac gacgtcgacg ctcaccgggt gtttgctgtt 180
tttgcgcagc cccatccgcg acgtcgttca cccccgaagg caagccgctc aacgctcgtc 240
gacgttcgga gctatgcaca aatcagaatc gccatcgatc ttacaaacgc cgattgagtt 300
tgtttatgga acgaaagagg atgatcgatc aagtgatgtg gtgccacca caagatgcag 360
tcggtggacg aaccaaggaa ggatggacat aacangtga tgctcgccaa gcgagtaccc 420
tcctt 425

<210> 50932
<211> 409
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-021-Q1-K1-H8
<400> 50932

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agcggcatct gcaatcacat gacaaggcgc cctctgatgg aaggatgaaa tgcacttttg 120
atggttgtga acacttcttt tgcaacaaat caaatctgac caagcatgtc aaggcatgcc 180
atgaccagct gaaacctttc aagtgcggaa tcgttggatg tggcaaggcg ttcacctaca 240
agcatgtcag ggataaccat gagacatctg gtgctcatgt atacatggaa gtgagttgtg 300
ctacctgac tatgttaatt ccgagtttgc gattgttggc ctattaagtc aaactatcag 360
ctcctgattt tcgtacgtat ctctaattta aacgtatgtt cacatctgc 409

<210> 50933
<211> 411
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-022-Q1-K1-A10
<400> 50933

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ggtcgagcct gatggaaaca ggccaccacc tccaagcctc cggctacgtc aacgaggaat 180
gaagcatggg cgagtcagca tgcagcgctg gagaactgag atcgatgcag ttcaagcgta 240
cgtataaatt ctcgagtgtt tgatgtgggt catctgtcaa gggcaacaac agttaggttt 300
atatgtgtgc ctttgcattt ctgcacattt gtcactgccg tccggtacta tttgggggtca 360
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<210> 50934

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-A11

<400> 50934

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gtcaggacgt gagagtacta gtatttggtt gtgcatacca cttgtatcca tagtctgttg 180
ttggtctcct acatctcgca taaaagaaat actcctatgc tataggttat gccgatggag 240
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agtcataat ttgtaccgga acctagaag atctttgatt cgttgtcatc tgtaacattt 360
tctcgatata tatatgggtg gcatttctg 389

<210> 50935

<211> 293

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-A12

<400> 50935

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taccttaagt gagccacaca tttgtctcct tactactttc agaactgaac cttgatctaa 120
ggtcagaaac tcaaacctac tgtccactt agtgaacacc aataccttat atagtgtatt 180
aggacattcc ctctcccaa atttcaaaaa ctctattatg ctattgaata cgaccttcac 240
gctgattata ccataactat tttcttagga aacaattaca acacctacac ttt 293

<210> 50936
 <211> 207
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-022-Q1-K1-A2

 <400> 50936

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 tccccctgcta tggagatcgt gcagaacctt aaagcatacc cactggctga tgcgcagctg 180
 accatgggta tcctcaatgt catccat 207

<210> 50937
 <211> 411
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-022-Q1-K1-A3

 <400> 50937

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 atctttctgcc gcgccaacga gaactactgc ctggccgtcc gcgacggcgc cgtcgtgctg 180
 gccccgggtca accccaagga cgaccaccag cactggtaca aggacatgcy cttcatcacc 240
 cgggtcaagg acgaggaatg catgccggcg ttcgcgctcg tcaacaaggc cacgggggtc 300
 gcaatcaagc actccctcgg ccagtccca cgggtcaagc tcgcgccttt cagccccggac 360
 catgatgacg cgtctgtgct gtggacggat agcaaggacg tgggcaaggg c 411

<210> 50938
 <211> 273
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-022-Q1-K1-A4

 <400> 50938

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aatcttaata aaaaaaaagg gcaaccgcct ctcgttttca aagttccaat cttccttctt 180
ccgacatcca acgttttatc ttttttatcc taaaaccaat ttacaatcca ctgccctaca 240
ttttacaacc tggaaaatcc aaaaccttcc cat 273

<210> 50939

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-G9

<400> 50939

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gcaaaagaaa taaggcagat agtccgtgat aaatttacgc accaattagc aatggagctc 120
atcaaggaat ggtaccttgc ttctcaagcc acaacaggaa gcaactggatg ggatgaccat 180
gatgcttttg ctgcctggaa ggacagtcct gaaaactaca aggggcatat ccaaaagctt 240
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gcattctcgc agggctcttc tacgctatta gataagatgg atccctctca gagagcgaag 360
tttgttcatg aagtcaaaga agtccttgat tgatgatacc aacacatcca acacaatgt 419

<210> 50940

<211> 306

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-F4

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gggacgacca ccagcactgg tacaaggaca tgcgcttcag caccggggtc aaggacgagg 120
aaggcatgcc ggcgttcgcy ctcgtcaaca aggccacggg gctcgcaatc aagcactccc 180
tcggccagtc ccaccgggtc aagctcgcgc ctttcagccc ggaccaggag gacgcgtcgg 240
tgctgtggac ggagagcaag gacgtgggca agggcttccg ctgcatccgc atgggtcaaca 300

acaccc

306

<210> 50941
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-F5

<400> 50941

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caggcacgcc agttcagaaa tccgtgtttg attactctgt ccctagcaca ccgatgcaga 240
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tccctgggtac accggtgcag agatcagttt tcgattctgt tccgagcaca ccaatgcaga 360
gatcagtttt tgactctgtt ccgagcacgc cgacgcagaa accattctt 409

<210> 50942
<211> 419
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-021-Q1-K1-F6

<400> 50942

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caaactccct ttttcatgag aaaggaaact atggcaaaat gtgcccagtt ggcccagttt 120
gatgaggagc ttacaaaagt tacagggtgat ggtgaagaca aatatctcat agctacatca 180
gagcagcctt tatgtgctta tcacttaggt gatagaatat accctgctga acttccaatc 240
aaatatgctg ggtactccac atgcttccgg aaggaagctg gttcgcatgg aagggacaca 300
gctgggtatct tcagagtcca ccagtttgaa aaaatcgaac aattctgcat tacaagccca 360
aatgacaacg attcttgnga gatgcatgaa gagatgctaa aaaactcaga agattacta 419

<210> 50943
<211> 301

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-021-Q1-K1-F7

 <400> 50943

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 aaatcactct ctgattccat ccacagcaca ccatttgaaa aaaccgtcta taactctatc 180
 ccaggcactt cagtgcacat atccttgtcc gaatactctg tccctagcac accgatgcat 240
 aactaagctt ttgactattc tgtcacaacc actccgatgc ataacacact ctttgactct 300
 g 301

<210> 50944
 <211> 428
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-021-Q1-K1-F8

 <400> 50944

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 agcaaggagc agctgctgtg gtgcgaggag aagatgagca aggtggacct caccgagaac 180
 cggetacgcc gtgacgggtc ccccatcctt tccccctgtt aggccgacgc acccttccctg 240
 cctgcctctg ggggcgtaag cagagaaacct cccttacttt gttagtccgg catgccatgg 300
 cgggtggtggc ggcaccaggg gtgtccgctc gtaccattcc ttccggctac cttatcagac 360
 tatatatgta catgctttta ggttggatct gaattgaaaa tgtccatact aaagtaaggg 420
 cttaaagt 428

<210> 50945
 <211> 420
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-021-Q1-K1-G10

 <400> 50945

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 tcgacctacg cgctgacgtg ttcgcggcag tcaaatecga tgacatggca gctctgtacg 180
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<210> 50946
 <211> 96
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-021-Q1-K1-G11
 <400> 50946

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 agggaaatta aagggataag ggtgaaaaaa taaaaa 96

<210> 50947
 <211> 421
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-021-Q1-K1-G12
 <400> 50947

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 tggacgggga gcaggcggcg cggtgggcgg cggcgcagga gggggttccc gtcggggcgg 180
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 ggctctacga cgagggcccg ctgctcgacc gggccatacg caggtacaaa gcatgctggc 300
 ttccgcttct tgacaagcac actaagggtg tggttgtaga tggtcattg gttgttcctc 360
 ttgattgtga gtggatatgg cactgccatc gnettaacc ggttcagtac ataagggact 420

<210> 50948
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 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-021-Q1-K1-G2

 <400> 50948

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ctcgcttggg ccacggacga ccactccctc cacaacgcct tcagcaccta cggcgaggtc   180
ctcgagtcca agatcatcct cgatcgggag acgcagaggt cccgcggctt cggcttcgtc   240
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gacggccgca acatcacctg caacgaggcc cagtcccgcg gcggccgtgg aggcggcggc   360
ggtgggtacg gtgggtggccg tggaggcggc ggctacggcg gtggcgggc               409
  
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<210> 50949
 <211> 404
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-021-Q1-K1-G3

 <400> 50949

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gctgggtatc aatgatattg ttgtggcagg tggcatggaa agcatgtcca atgccccaaa   180
gtacattgct gaagctagga aagggtctcg ttttggacat gacacacttg ttgatgccat   240
gcttaaggat ggactttggg atgtatacaa tgactgtgcc atgggaatgt gtgccgaact   300
ttgtgctgac aatcatgccc tcacaagaga agaccaggat gcttttgcta tccaaagcaa   360
ccagcgtgga attgctgctc gtgacagtgg tgcttttgca tggg                   404
  
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<210> 50950
 <211> 430
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-G4

<400> 50950

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tgagcatttt cttgccctgc aacttggttt gaaaccagga atgaagggtt tagatgtggg 180
ctgtggaata ggtggaccac tgagagaaat tgcaagattt agtcaactt cagttaccgg 240
attgaataac aacgaatacc agataaccag gggaaaggag ctcaaccgtt tagcaggaat 300
tagtggaaca tgtgattttg tcaaggcgga cttcatgaag atgccgttcg atgacaacac 360
ttttgatgct gtttacgcca ttgaggcaac atgtcatgca cctgatccag ttggttgcta 420
caaggagata 430

<210> 50951

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-G5

<400> 50951

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tggtgtgagc cctgctacct tcttgatata accacagttg ttgccgttct accagcacgc 180
tgcgctaac gctggcacc tcttacaact gcaacaattg ctgccattca accaacttgc 240
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ttcttatgag ttatagttca ataataaagt tttttgtctg atgtttgtgg cttcccagaa 360
ataagaaagt acatttctag attcttatgt gcttctagtc tccaaatgtg gttgatagtt 420
attttgctct aaga 434

<210> 50952

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-G6

<400> 50952

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tgatttttagc cctgctacct tcttgataca accacagttg ttacctttat aacatcactc 180
ttaacctaac gctaccaccc tcatacaact gcaacaattg ctgccattca acctaaactta 240
ctttaaacia acaccagtat cagttctacc aacatcccat aattgaacat gccctcaatt 300
agaaatctta caagttatag ttcaataata aagttttttg acagatcctt gtagcttccc 360
acataataa cagtacattt ctagattggt 390

<210> 50953

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-G7

<400> 50953

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ccgccgaatc cgccgctcct cgcactgcaa cagccccgga ccacggtgca tttgatccgt 180
cccggccgcc tacacgatgt ccaagtcggg agcgctggat cttgcttctg gcctcggagg 240
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ctatggaggg aaggaggaag caaggaagtc caactatact gatatgggta ataaatacta 360
tgatcttgcc actagcttct atgagtatgg ttggggtgaa tccttcact ttgctcacag 420
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<210> 50954

<211> 307

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-G8

<400> 50954

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 cttcaattaa ctctccaact ttattaaaat tgcaacattt gataacattc aaccaactaa 240
 atttaactaa cttaccaacc ttctaccttt tgcccattat tgcaattgcc ataaattata 300
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<210> 50955
 <211> 390
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-021-Q1-K1-F3

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 aggagctctt taatctgtgc tagcagcggg cccagagaat gcggcagatc tcgtcgtgc 180
 tgcagggcct ggcccgggtc ctctcgggtg ggagggacag ggacagggac agggaccgga 240
 aagggaacgg cgcagggcgc cgcaagaccg ccgtgccggc ggtgctgcgg acgtcgggca 300
 ccctgtgggg cgacggctcg gacacgttcg ccgncgtctg ctgcgggcgc ggcgagaaag 360
 gcatcaacca ggactgctcc atcgtctggg 390

<210> 50956
 <211> 424
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-D9

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 ctatcttttc aaggggaatg gtaataagga gaatgagccg tttattagtg atgtaaccgg 180
 catcactgat tctgccattc tctcaggatt aaagaacgac atgcacaaaa tacagaggta 240

cagaacctgc aggaatcttt atctgatttc caatacgtat gttttgcata cactgaagcg 300
 cgcacagagg cagatgcagc actaatctag ccagtaaacc aagcacgcac actcacgcgc 360
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 gtat 424

<210> 50957
 <211> 328
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-021-Q1-K1-E1
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 ccaacccact tgctctggcg aacgtagttg caaaccagca acaacaacag ctacaacagt 180
 ttctgccaac gctcagtcaa ctagccatgg tgaaccctgc ccctacgta caacaacaac 240
 aactgctttc atctagcccg ctgcgtgtgg gcaatgcacc tacatacctg caacaacaat 300
 tgttgcaaca gattgtacca gctctgac 328

<210> 50958
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 <212> DNA
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 <400> 50958

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 ttccatttta acacaaacat ctactccttt gattcctaata accatcttct aatatcaata 180
 tactttctcaa tcacatatac tatatcctca cattttcata attttcaata acttattcta 240
 tcaagcatcc aatccattct atattaatta aaatctgtcc tctgtaaaca tgtcaacttc 300
 ctatctttcc acattctcaa tcaatctaaa tcattaccta ttcattctct 349

<210> 50959
 <211> 333
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-021-Q1-K1-E2

 <400> 50959

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 gaagcagctg atgatccaag tagcagagct agttcccaag catcacggaa ggacaaagaa 180
 gcaggagcca gcgccaatc ccggtggcag ttcaaagaac acaaaaggcg ggaaaaagaa 240
 aaagtgatgc agtatcattg tgttgTTTTT tattctgttc gtcatcatat actaagcttc 300
 tgtgaaaaag aaaaagtctt ggacgttggt gtt 333

<210> 50960
 <211> 423
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-021-Q1-K1-E3

 <400> 50960

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 tgctgggtcg gcgggtgctt cagctccgac atcctcaagg ccatggaggt cgccgtgacg 180
 gacggcgctc acgtgctctc gctctccctt ggcgggcgca cggcggagta ctaccgcgac 240
 agcatcgcgg tgggcgcttt cagcgccatg gagaagggga tcttcgtgtc ctgctccgcg 300
 ggcaatgccg gcccgggcgc cgcgacgtg tccaacggcg cgccgtggat caccaccgtg 360
 ggcgcgggga ccatcgaccg cgacttcccc gnctacgtca cgctcggcaa cggcaagaac 420
 tac 423

<210> 50961
 <211> 392
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-E5

<400> 50961

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gggcaagaca tgggataagc tccagctcgc ggcgaggggtt attgttgcca ttgagaaccc 180
acaagacatc atcgtccagt cggcccgccc ctacggccag cgtgctgtcc tcaagttcgc 240
gcagtacact ggcgcccattg ccatcgctgg gaggcacacc cctggtacct tcaccaatca 300
gtccagacc tctttcagcg agcctcgctt gctcatcctt actgacccaa ggactgacca 360
tcagccaatc aaggagtctg ctctggggaa ca 392

<210> 50962

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-E6

<400> 50962

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gatgaggagc tttacaaagt tacagggtgat ggtgaagaca aatatctcat agctacatca 180
gagcagcctt tatgtgctta tcaattaggt gatagaatat accctgctga acttccaatc 240
aaatatgctg ggtactccac atgcttccgg aaggaagctg gttcgcattg aagggaacaca 300
gctggtatct tcagagtcca ccagtttgaa aaaatcgaac aattctgcat tacaagccca 360
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<210> 50963

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-E7

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cctgcatgga cgaataagag ataggatgca tgtgcggaat gcgaccatgt ctgaatgaca 120
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aaacatacct ggtgctcctc atacaaccgg aatgtacctt tgtcgtatgg aaaggacaca 300
gctgctatcc tcagagacca acagtttgaa gaaatcgaac actgctgcat tacaagccca 360
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<210> 50964

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-E8

<400> 50964

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gctgtggctg ccagacacca ccgtttcacc taccgcctcc gttctatatg ccgcctccgt 180
tctatctgcc gccgcagcag cagccgcagc catggcaata cccactcaa ccaccgcagc 240
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gccagtgcgt cgagttcctg aggcaccagt gcagcccggc ggcgacgccc tacggctcga 360
cacagtgccg ggcgctgcag cagcagtgtc gccaccagat caggcaggtg 410

<210> 50965

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-F1

<400> 50965

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cttgtggatg attctctgac ttgtatgtca gaggcattgc ctatgattga acatcttatt 180
ctgtcatcat gcctatccat tggcatcgat ggattgtcct cattgcattg ccttcataag 240

ctgaccttgc ttgacctgtc ttataccttt ttggacaact tgaagcctgt tttcaacagt 300
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<210> 50966
 <211> 391
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-021-Q1-K1-F11
 <400> 50966

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 gacgagcatc cggggttagag aggaagaaat tgcaaccgaa acaatggcgg cagattccgg 180
 cgctcgcaga caaccaagct tcaccaaggt cgaccagctg cgccctggaa cccacggcca 240
 caacctcatc ctcaaggttg ttgactccaa gatggctgctc cagagaggcc gcgagggagg 300
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 tgtcttcact gcaagaaacg atcaagtga t 391

<210> 50967
 <211> 390
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-021-Q1-K1-F2
 <400> 50967

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 gtggtcgctt cagaaggaaa tcatcatccg acgcatatga gagggcaacc cctccaggga 180
 cgaccagcca cctctctccc ttggaagtgt gaaccggctg caccctcaca cttgttttgc 240
 tccttgacaa gcatctcttc acctataata aggttagaggc agggaggaga gaagacgaca 300
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 actatgggta ttggtcccc ctatctacta 390

<210> 50968
 <211> 440
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-021-Q1-K1-D8

 <400> 50968

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 attctatgcg ctccgtctcc ttgaatcaac tggaattggt gtggttcctg gatctggatt 180
 tggccaagtt cctggaacat ggcacgtcag atgcacgatc ctgccgcagg aagataaaat 240
 cccgcgggtg atcacccgct tcaaggcttt ccatgaggcg ttcattggctg agtaccgtga 300
 ctgaactgtt acagtggctg agtaccaccg tgtagaccga aacagaataa agtcccccc 360
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 ttggcgccctt taatggcaat 440

<210> 50969
 <211> 297
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-021-Q1-K1-C11

 <400> 50969

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 acatttgggg ctaccacaat aataattatt atgatcacca caataattcc tattttcacc 180
 acattaatta ttaagttgat caccacatta tatacttctt atagcacatt gaaggcatct 240
 tgtataatat caagtacaat atcacgctct aacactgcta ctagttcttc taccaca 297

<210> 50970
 <211> 352
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-021-Q1-K1-C12

<400> 50970

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gatcttctgc cgcgccaacg agaactactg cctggccgtc cgcgacggcg ccgtcgtgct 180

ggccccggtc aacccaagg acgaccacca gcaactgtac aaggacatgc gtttcagcac 240

ccgggtcaag gacgaggaag gcatgccggc gttcgcgtc gtcaacaagg ccacggggct 300

cgcaatcaag cactccctcg gccagtcca cccgggtcaag ctgcgcctt tc 352

<210> 50971

<211> 427

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-021-Q1-K1-C2

<400> 50971

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gtgcgtcgcc agctgcttca acgacttccg catgcacgcc tctgctccg agatgcagag 120

ggaaatgata agcgccgacg cgataaagca ggagctgttc aagaacgctg gctatggcgg 180

aggctgcttg tagaggggca tgtcatcatg gcatgggagg aagaagaaga agaggcagca 240

atgaattaat cttaagcagc tgtgggagca gcagtcgtag tatcagttca ggtccagtag 300

cggaaaaagc aggcagggca aagatttggg aagccttttt gcaatccatc ntccccatca 360

taaccactt cgatctatcc attgtagcag tacgtgtccg tacgtcctat agcatcatgc 420

aggatgc 427

<210> 50972

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-C6

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atcacctccg atgccatctc tcttgcaatt gctgactcca gcatgttcat gattgggtcgt 180
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gtatgactac ttggcatgga agttccatcc agactatgaa gtcttctttg cttgctcaat 300
aatactgtca aagaacaagt tgactacata catgcatcat atttctgttt gcatatgatg 360
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<210> 50973

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-C7

<400> 50973

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aatactgtca aagaacaagt tgactacatt cttgcatcat atttatgtga atatgtgttg 360
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<210> 50974

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-C8

<400> 50974

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tgggtgaaccc tgtcgcctac ttgcaacagc aggtgcttgc atccaaccca cttgctctgg 360
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<210> 50975
 <211> 188
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-021-Q1-K1-D10
 <400> 50975

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 tatgaaca 188

<210> 50976
 <211> 397
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-021-Q1-K1-D12
 <400> 50976

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 gtcgcgaccg ggatgctctt cactgaggaag agcttgcttc caggacagc cctaccggaa 120
 ggtaccaagt tctgcggcca cggttctctc gatcccgaga ggtttgaact acgagcggat 180
 gcggatgcca tcccgttcag ctacagccag ctgcacacca tcctgaggat gtttcggatc 240
 cctcgggggt ccaagaaggc agagcaagtc gccgtcacgc tccggacatg cgaggctgag 300
 tccccagagg ctcatgctg cgccacctcc gagcaggcgg cggccgactt cgctgcctcc 360
 tcgctcgggg tcagggccag caagctggtc gcgctcg 397

<210> 50977
 <211> 358
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-D2

<400> 50977

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ttcatttcaa aggttccaga aagcgattga tgcttgaggc atggaatttc tacagctcaa 120
cctctaagct gtctgatatg ctatgcctaa tcttgagaag tggccggacg aaatatgact 180
tctgaacttt tgggttaaaa ctgacacatg ttgatactgt tcaaagctgt tgtatgttca 240
agtatagtac aaaaaaatgc tgaccatgag gctgtcattg caagaattca gatcagcata 300
aaaaattgct agtagcattc aatatgtaac aaaaacatgt gagaacccat acgagaac 358

<210> 50978

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-D3

<400> 50978

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tgagcggatc gagatggcgg cgtcggatgt tgagtaccgc tgcttcgtcg gcggcctcgc 120
ctggggccaag gacgaccact ccctccacaa cgccttcagc acctacggcg aggtcctcga 180
gtccaagatc atcctcgatc gggagacgca gaggtcccgc ggcttcggct tcgtcacctt 240
ctccacggag gaggcgatgc ggaacgccat cgagggcatg aacggcaagg agctggacgg 300
ccgcaacatc accgtcaacg aggccagtc ccgggcgggc cgtggaagcg gcggcggtgg 360
gtacggtggt 370

<210> 50979

<211> 403

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-021-Q1-K1-D5

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tcctccgctc ctcgctctcc ctgcgctcc gccgcttcta cccactcgcc ggcaccatca 120
ggccccacgc gcccttcttc tgctcttaca cccatggtag cgatgccttc accatggtag 180
tcgccgagtc gaacagcccc gacgatttcg acagcctcgt agccagggtca cgcagggacc 240
tggacaggat ccgccccctc gttccgcagt tgccgccgcc gggggaagac ggagcgttcg 300
cgctcgcgc cgtgcaggcc actgtcttcc gaggcctgg cctctgcctc gggtctctcc 360
tccaccacgc tgcctgcgac gatgcctnca ccatgcattt cgt 403

<210> 50980

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-C10

<400> 50980

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gcattcatca gaactctgag gcttcacagc atcttggcgc acgaccagca ccagcaggcg 120
gcaacaaatg acacagcacc gatggcgctc gttccggtgt gcgtgcagtg cggtagcggg 180
agcaaccctg gccggtgcat ggtggtcggg ccgacgctgg ggttcctcgc gttcgtggtg 240
gccggagtc tgcagtggcc gatggggggc gacgtgtacc tgttccgtca ccgcatggga 300
ctacgcatca tggcgcaccc ggctgcgctc gtgtgcccg gcgttaccag ggccattccg 360
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<210> 50981

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-D6

<400> 50981

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ctgggtctgc tccactccgc ctttctaccc actcgcgcga ccatcaggcc ccacgcgccc 120
ttcctctgct cctacaccca tgtaccgata cctaccatgg tcgtcgcga gtcgaacagc 180
cccgcagatt tcgacagcct cgtagccagc tcacgcaagg acctgtacag gatccgcccc 240

ctcgtttccgc agttgccgcc gccggtggaa gacggagcgt tcgcgctcgc cgccgtgcag 300
gccactgtct tccgaagccg tggcctctgc ctcagcgtct ccgtccacca cgctgcctgc 360
gac 363

<210> 50982
<211> 356
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-A3

<400> 50982

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gaagaaaaaa aaaaaaaaaa aaaaaaaaaa acatacaa atagtatatc cattcttact 120
ttcccatcct ttctatcccc ttacactctt ctttaatat cacctaaatt taacttacct 180
aactcaatth ttcatacca cattttttcc aaaaccctc tggttaacca ctttattccc 240
ctcccttaat atcctttttt cacaacctct tttaacagcg aacagtcctt tccaaaaacc 300
ctttcccaac tggttctttc acctatttcg caactttaac tccccatttg cccgcc 356

<210> 50983
<211> 296
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-A4

<400> 50983

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cgccgagtcg gacgggctcg gccgcttcgc cgtcgatgag cacaacaggc gcgagaacgc 120
gctgctggag ttcgtgcgcg tgggtggaggc caaggagcag gtggtggccg gcacgctgca 180
ccacctcacg ctcgaggccg tcgaggccgg gaggaagaag ctctacgagg ccaaggtctg 240
ggtcaagcca tggctcgact tcaaggagct ccaggaattc agccacaagg gggacg 296

<210> 50984
<211> 278
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-A5

<400> 50984

acttcgtctt aattcccggc tggacgccac tcctccgcag cactctgctc ctaacgctgg 60
ttctctctta caactgcaac aattgctgct attcgacctt ctgctttga caaacccatt 120
atcattctac caacaaccca tcattgattg tgccctcttt tacatctctt atcatttata 180
aatcattact aaaccaacc ttactcatct ttgagaatat ccacatatta caaactacat 240
ttataacaaa taatccttta cctatcacc cttcccaac 278

<210> 50985

<211> 231

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-A6

<400> 50985

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ttgcacttaa tgttctatat atagtactca aaactatgct tgggtgtctga gtgatgtacg 120
tggaattctg aaactatgga tcagctcttg tgtgcacttg ctgaaccaga taccagcag 180
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<210> 50986

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-A8

<400> 50986

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cgtctcacia accctcttgc tttgctgctg cacctgcaag tctgcaaccg cgcacacaga 120
gatgtcgacg acggtgagcc gtgcgtccct cgaccagaag ctgcacctcg ccaagcgttg 180
ctcccgagag gcgacctcg ccggagccaa ggcggcagcg gtggcgacta tcgcctccgc 240
gatccccacc ctggccagcg tgcggatgct gccatgggcc aaggccaaca tcaacccac 300
cggccaggcg ctcatcgtct ccacggtggc tgggatggcc tacttcatcg ccgccgaaa 360

gaagatcctg tcgctggcga ggcgccactc gttcgc

395

<210> 50987

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-A9

<400> 50987

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cgtgctcggc ggcacgttcc tgggcgcgc acaccacgcc ccacccgtca gcgacctgga 180
gacccgactg ttggcgaacc agaaccagac ccagaccag acgtgtcccg agttcaaccc 240
gaacgtccgc tggagctgca tggactgcct caaggccgcg tacacgtgcg gcttctgtgc 300
tcaccagga gacaagcttc ttccgggggc gtgcttggcg ctgaacaacg cgtctcggca 360
tgctgcccgc gcagaccacc gggagttcta cacggaaggg tgccccaaca ac 412

<210> 50988

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-B10

<400> 50988

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cagggcactt gccaccagtc atgccattgg gtacatgaa cccatgcatg cagtactgca 180
tgatgcaaca ggggcttgcc agcttgatgg cgtgtccgtc cctgatgctg cagcaactgt 240
tggccttacc gcttcagacg atgccagtga tgatgccaca gatgatgacg cctaactga 300
tgtcaccatt gatgatgccg agcatgatgt caccaatggt cttgccgagc atgatgtccc 360

<210> 50989

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-B2

<400> 50989

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cgggcggatgat gaagagcagc acaatcgtcg cgcttctgtt ggctgttgcc attctgtcct 120
cgctgtctcc atgtacgaa gccggcggtt gcatcgggaa acccaagaag tcaccgccgc 180
cgccgagaag gccatactc tcgtcctatt ccgaggacca ccagaactgc cgcttgatct 240
gtagctcgaa gggtttcaag gacgggtggct ggtgtgacga aagcgtcgag cacaaagtgt 300
gctgctgctc ccattagaaa tataatatcg tatggatatgt tgatgcatat atatgcatca 360
tccatctacc tgtgtggtgc aaaattctga ataaaactac ctgtgtggtg cat 413

<210> 50990

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-B3

<400> 50990

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cgatgccatt gcaatttcag ttttattttg aaatacatgg ggttttagtg gcaaaaaaaaa 180
aaaaaaaaaa aaaataaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaata 240
aaaaaaaaag aagacaatta aagacatcca atattaacga caaaagccat gagaacaaaa 300
aagtaataat ggtggcctcc taaatgtaat tacctttcct atgttgaaca atatata 357

<210> 50991

<211> 249

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-021-Q1-K1-B4

<400> 50991

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gagattatgt agtactgtat gtgcacagat tgatggagta cacaaactaa gctcgtatcg 120

ctagagaatc atggtactat gaataggcat ttggatcagc gtgttttagtt ctagtaagat 180
aataccactt ctcaattaat gcaattccag cctcccaatg ttttgtcaaa aaaaaaaaaat 240
nnttaatat 249

<210> 50992
<211> 419
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-021-Q1-K1-B5
<400> 50992

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ctcatatagc aacagttggc acagcaatgt cgtccccaga aaaagcagct tgggaaatct 120
tcaattcttt agatgtcaaa tatgtgcttg ttgtctttgg aggacttggt ggatacccta 180
gcgatgatat caataagttc ctttgatggg tacgaatagg aggtggtgtg ttccctcaca 240
ttaaggagcc agattatctt agggatgggc aatatcgctg tgatgctcaa gccactccaa 300
ctatgctgaa ttgcctcatg tacaagcttt gttactacag gtttgtggag actgatggaa 360
aaggctttga cagagtaaga ggatatgaaa taagaaagaa gcatttcaag ctaacacat 419

<210> 50993
<211> 348
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-021-Q1-K1-B6
<400> 50993

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aattgacagt tgatgtcaaa gcaaactcag aatcagatct tttgacagca atcactgtcg 120
atgagtttgg tactccaggg ctaaaatcaa ttatcaatgt ggttggtgca gaccagagtt 180
caggaagct tgaattccag tacctacatg aatatgctgg tgtgaatgca agcgtcggac 240
ttaattccaa cctatggtt aacctttctg gtgcctttgg aagcgaagca ctatcagtc 300
aggttgatgg ctgatttgat accgcgacta gcgattttaa caatgaca 348

<210> 50994
 <211> 402
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-021-Q1-K1-B8

 <400> 50994

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 ccggccgccc caacttctcc acaccggagg agatcgctgc tgggtacttca ggtcgccctc 120
 gcacctttta gaagaaggag gaagaggaag aggaggaaga agaaagagaa gagtcagagg 180
 aggaagaatc tgaagacgag tctgatgaca aacctaaaca taaagggtact gaggggtatta 240
 ttcagattga aaatccgaac ttagtaaaag tgaagaatat aaaggccaag gaagttgatc 300
 ttggaaagac aactgaactc tcaaggcgtg aaaggaggga gcttgagaaa caaaaagctc 360
 atgaacgtta tatgaaactt caggagcaag gaaaaacaga ac 402

<210> 50995
 <211> 385
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-021-Q1-K1-B9

 <400> 50995

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 ttggccttac cgcttcagac gatgccagt atgatgccac agatgatgac gcctaacatg 300
 atgtcaccat tgatgatgcc gagcatgatg tcaccaatgg tcttgccgag catgatgtcg 360
 caaatgatga tgccacaatg tcaact 385

<210> 50996
 <211> 383
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-021-Q1-K1-C1

<400> 50996

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tgtggagacc gaaggggtatt ctggaagtga cctgagagcc ttgtgtgaag aagctgcaat 180
gatgccaata agagagctcg gtccacaaaa tttcttact atcaaagcaa atcagctgcg 240
acctttgagg tacgaggact tcaagaacgc gatgacggtg atcaggccaa gcttgcagaa 300
gagcaaattg gacgagctgg agaactggaa cgaggaattc gggtcagct gacggagacg 360
cgcgctgtct gatgatgatg atc 383

<210> 50997

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-G9

<400> 50997

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actagcgaca actatgatat cacctccgag cttccttttg gatttcaatg gtgtcccttt 180
agtggattca cccagctagc atcaatgtta ggggtgcgtg aagctgagcc aacttaccac 240
acaactggag atcactcaag tgctgcaagc agttcaattg tttgcccata tcttgccctg 300
cgtggttttc tccatcctgt taatgtgcct tctacttcta attctggtgc tgaaagcact 360
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<210> 50998

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-H1

<400> 50998

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ggaggtcaga taggcgcggt acaaccaaca caggctacac tgaacatgca gtacaggggc 120

atgcatccat cgatgcaaat gaatcatgga atgggcatgt attcccaacc aacgttcgga 180
ggatattatg gaatgaacca aacacagctt tacggcgctt atatgtctgg ttatggatat 240
ggtcagcaat ctgggggcta ctatattccg aatgctgcat atgcctatac tagtgcaaac 300
gaacttgccc agaagatgaa tgacctttca gttcaaaacg gtgatccaaa tggagccgca 360
gcaaataagc agagcagacc tgacgatgca c 391

<210> 50999
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-H11

<400> 50999

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acaatcaagg aaggacacaa ttgacagttc gataccatga taacagtgat gtgaagacta 180
ctcaggatct taccgtgtgg tcttcaggaa ctgagcaaca gagaaacaat attgctgccc 240
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tattctcggc atttaaacca ctgaaagata tacataaccc acttggtcct tttcctagtc 360
aaatatctgg gactcactca aatagctggg acacagctga tgctc 405

<210> 51000
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-H12

<400> 51000

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caaagaagaa tttgttagtg aatatatata cccctgcctg cgtgcagggtg cagtttatga 120
aagaaagtat ctgcttgga cttcgatggc taggcctgtt attgctaagg caatggtcga 180
tggtgccaaag gaagttgggtg cggatgcagt tgcccatggt tgcaactggaa aaggcaatga 240
tcaggttcgc tttgagctta cattctatgc tttaaactct gaacttaaag tgggtggcacc 300

ttggagggag tgggatatca caggacgtga agatgctatt gaatatgcta agaatacataa 360
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<210> 51001
<211> 413
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-020-Q1-K1-H2

<400> 51001

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ctggtcggta ttggagcttg tacagaacaa caccgaagtg catgatattc ttgactgaat 180
aaaattaatt gacgacactt gttttacgta agggaaagat gaggataatt tggagacata 240
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tggcatgagt cgtgtcaacc tcagctcagc tgaaagggct caagttcgtg ccacaacaca 360
actggaagag ctgcngccgt ggccaaagga ggaaatgccca aacaacagca aca 413

<210> 51002
<211> 342
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-H4

<400> 51002

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gcttgatgag gcgtcgctt tgccgctgtg ctgtgactgt gactctgccg ctaaccgggt 180
tgcatttctc catcttatcc ctctcccgct tctgcttctt cgtctcttac ttctgttctga 240
tcccgctggc gaggatgcat tcgcatttgc ggcactcaat gtagccctac cagaaggtgg 300
tgaagatcgt ggacgtcact gtcagtgtgg tgtacaatgt gc 342

<210> 51003

<211> 264
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-020-Q1-K1-H6

 <400> 51003

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 gcctgtcctg tgtctgtttg tacgttgaca atttgattcc gttgctcaag gatagaagaa 180
 tattgataca ggagacccga ggactggttt gttttttgca aaaaaaaaaa ttacaaataa 240
 taaaactaaa atacaataaa aata 264

<210> 51004
 <211> 408
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-020-Q1-K1-H7

 <400> 51004

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 ctgaggatgg aaccgatcct cccaaaaagc ccacatcagt agctgagggtg gcaaagcagc 180
 gtgagcttag tggcactctt caaagcgaga cggatagtaa gacgaagaag cagatctcaa 240
 atgcaaagtc caaggagctc agcggccacg acatctttgc tgatactctg gattccaggt 300
 ctaacagggc aaggaaccca tcgaacggca gcacagcctc acacgcacct gccaaaaata 360
 caaacgccag caccttctcg tttggagatg ccaacactga cagcacgc 408

<210> 51005
 <211> 410
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-020-Q1-K1-H8

 <400> 51005

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gaaggcttga agcgtctagc aaagtccgat cctatgggtc tatgtacaat ggaagaatct 240
ggtgagcata tcattgctgg agctggcgag cttcatcttg agatctgcct gaaggatctg 300
caggaggact tcatgggtgg tgctcaaatt atcgttttca ctgcgctcgg ctacttacgc 360
gaaacggatc ttgagaagtc ctgacgtact gtcatgagca agtctcccaa 410

<210> 51006

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-H9

<400> 51006

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tggaagagtc ctgcctgagc tgaatggaaa actcactggc atggccttcc gagttccaac 180
accaaagtgc tctgttgtgg atttgacatg ccggtattgag aaaagcgcct cctatgatga 240
tgtgaaagca gccatcaaga cggcatcaga ggggtgcactc aaaggtattc ttggctacac 300
agacgaggat gttgtttcca atgattttgt tgggtgattca aggtcaagca tctttgatgc 360
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<210> 51007

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-A1

<400> 51007

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gattctgaa agtttcagtt gatctagttt tctctgcaaa gaacatgtgc atacctgttt 180
caggctaaca agttctttcg tcttcttttg taggttctcc ttgagctggc ccgtagccgg 240

aacagaatgc cgctgcccac atcaatcgct cctcctggct cgattcccct cccacctgag 300
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tatgaggaaa tagaggatga gactgaag 388

<210> 51008
<211> 405
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 51008

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ggccccgttc cagcagtaca ccgacctgct ggcaaagccc accaagggcc ttgtgctcga 180
ggccccaact gagacagtag aggccttagga tggtttgagt ggagagctct actcgtcggg 240
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ctgttttgct ctggatgctg ntctgtactg tcaagttttg gattatgcta tggcactttt 360
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<210> 51009
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-F4

<400> 51009

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acctatacac acgaaagtgt ttacagagcc agcattatgt atctagaaat ttgagaaata 180
tttctagttt tcagaacaaa aggccttatat tggactatit atcctcttct taatataata 240
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caaagaaata aattccgtgg tgattttcga tctcatgaat gacaaatggt ataaataatt 360
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gatgtggtgt caacactaac

440

<210> 51010

<211> 368

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 51010

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tccgcggagt tctggctcga cgagttcacc acggacggcg acgtccgcag agactacgac 180

cgttctggcc ggcaggtggc gtcgcttgct ctgcaccagc gttctggcgc tggcttcaac 240

tccacgcgca agtacctctt cggcgagttc agcgtggaga tgaagctcgt cggcggcaac 300

tccgctggga ctgtcacctn cttctacctg acgtccggcg agggcgacga gatcgacatg 360

gagttcat 368

<210> 51011

<211> 335

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-F6

<400> 51011

cccacgcgtc cgccacacg tacggtcact tcgatcgaaa ataatacaaa cgagaaggac 60

cctaactata aacaaaccaa aaataaaata aaaccatcct atacatccta atcacaaaac 120

aactacgcac acttctggct agacaagttc accaccgcac ggatacaacc acatagacta 180

ccaccgttct gacctacaag tgactatctc ttgccctctt accacaactt ctgacactgg 240

ctaaaactcc acgtcaagt acctattcgg ctagttcaac atccacatta agcctcttcg 300

cggcatactc catagggact gtccacctct tctac 335

<210> 51012

<211> 335

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-F7

<400> 51012

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cctccgcgga gttctggctc gacgagttca ccacggacgg caacgtccgc agagactacg   180
accgtttctgg ccggcagggtg gcgtcgcttg tctctgacca gcgttctggc gctggcttca   240
actccacgcy caagtacctc ttcggcgagt tcagcgtgga gatgaagctc gtcggcggca   300
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<210> 51013

<211> 433

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-020-Q1-K1-F8

<400> 51013

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gttttgttgg tacgcgcgcy cgcagatagt gggcacggcc cgtggctacc gtccctgggaa   180
gaagaagcac ggcgggcgcy gcggttaaaa gaagagggcy tcgccggcgc cggcgcttaa   240
ggacgtgcgg tctgactcgg aggactcgtg caccagcacc agcggcgcca gcagcgacaa   300
gagcagcgtc gtgcagagct ccccttcgnc gncgacctct gccagccacc gnccccccg   360
gaacaagcgc cgaaagggca tcccgcacgg tcgcccttgg gcagcctcat cgtcgagctc   420
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<210> 51014

<211> 403

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-020-Q1-K1-F9

<400> 51014

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tgggctcggt gctcggcctt gttgagctag agatcctcca acacagcggc accgacacca 180
aggctcagaa gtgtttgaaa aggaaagaga acaaacaaaa atgggtatag tcaggaataa 240
ggaaaagcat tgtggatggg attcatcttt ttctatgggt cacctcggtc tggatgata 300
tgaaatggta catcagataa gtgggaagag gaagtataat gcaatggata atcataaaaa 360
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<210> 51015

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-G10

<400> 51015

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acattcaatg agctgaacca gctcgcggaa gagggccgca ggagagccga gatggcgagg 120
ttgcgagaag tgagcaccct gaaggggagg atggagtcag tggatgaagca gaagggctctg 180
gacatcgaga ccatccagca gtcctacacc gtgtgactgg ctgaccgacg acgacggggt 240
ttatagaggt ttctttctct tatactatac aatctgtact aggtagcaat aaggatcaag 300
gaaggaaccc ctatatattg gctgtgggtc gcgggaaatg aatgatggtc atatttatga 360
tgtcgggtgtg gtgcttctgt cgccaactct cgaccatact accctcaac 409

<210> 51016

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-G11

<400> 51016

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tgggaacatt gtaactggag atgatcagca aactcagtgt atcattgata atcaagctct 180
 tccccgcctc ctgaatttat tgacacagaa ccacaagaaa agcattaaga aagaggcatg 240
 ctggacgatt tcaaatatta ctgctggaaa caaagatcag atacaggctg tcataagtgc 300
 tgggtattatc gctcctttgt tgcaactgct tcaaggagca gagtttgata tcaagaaaga 360
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<210> 51017

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-G2

<400> 51017

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 gacggaaggg agttcaacat atggaggcct ctctgcccta atgagtatgc ctcaaagtgt 180
 gatattgctc atgttggcat ccatccaccg tattgtgctg ctgtatacaa gaatatcaat 240
 gggaactttg cactgcctct tggctatgac ctggtttggg gaaattgtgc tgaggattac 300
 aagagccctg tatcaatatg gcttccaagg ccaccggggg gatacgtagc tcttgggtgt 360
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<210> 51018

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-G3

<400> 51018

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 tgaccttaaa ccagagaaca tattgcttgt gtctaccatt gatcccacaa aggaccctcg 180
 gaaatcaggc gtacccttag ttccgccttc aatgaggaca gacgagccac ctctaagggt 240
 gcctgcacaa tcaggaaatg gtggcctcac caagaaccag aagaagaaga tccggaagaa 300

agctaaacgt gcagttgctg caacttcaga aggaagtagt gctgtggcat ctgcggacac 360
 agatgggtc 369

<210> 51019
 <211> 432
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-G4

<400> 51019

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 caagacctac ccgcagcagg ctggcaccgt ccgtaagaac ggcttcatcg tcatcaagaa 180
 ccgtccctgc aaggttgtgg aggtttctac ctccaagact ggtaagcatg gccacgccaa 240
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 atcacacaac tgtgacattc cgcattgtgaa ccgtactgag tatcagctga ttgatatttc 360
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<210> 51020
 <211> 407
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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<400> 51020

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 tctttgctgc cattccatgg tatcttggag cttttgtgct gatttgtgtc cgagtacgtg 180
 attacagga gaaaccagga tatgttgctt gcactattgc tgccctcgctt gctgcaattg 240
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 cagcagtcgg gttaatgtaa atgtccgttg ctcggctact ttgttacctg tgttgtacat 360
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<210> 51021
 <211> 388
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-G7

<400> 51021

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gtgaacacct tcttctctct ctgcgggtgc gtggaccagg ccagcgtggc ggtggtggag 180
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accaagacca aggataatgt cttcgtccaa ctgatctgca caatccagta ccgtgttgtc 360
aaggaaaatg catatgatgc tttctatg 388
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<210> 51022
 <211> 323
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-F11

<400> 51022

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tcttactata catgtgcact cataatcata atcttgaaca atgtcctctt cacactcaca 120
cttacttgca aattaactct ttctgaactc tacatccatc tatagaccca cacatacacc 180
aagtctcaca actcttagcc ctgctattag aacatacaat acttcttata cccattaata 240
acgtttaaca ttaccatggg attcaaattt cctacaattt aactctttct agaaatatac 300
gatattgatc attccatcat ttg 323
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<210> 51023
 <211> 385
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-D5

<400> 51023

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tatactgaac aaggtgaagg aaaaaagtga tgacgaaggt aaaccattgc ccgctgaatt 180
tgatggaaaa gaaaaccggg tggcaaactc aaaaaatgac aagtctgatt ctgggtgtcgа 240
ccggagtcga gaaagagaga gatcaagagg gcgggaacgt gatgccaggg gtagggattc 300
tgatcgtgat agcaggggtc gcgagtctga tcgtgagagg gaccggagac gctgctctag 360
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<210> 51024

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-D6

<400> 51024

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agaatccctc aaacgcctcc tgaagatgag aagagcatcc aaggacgcag aaataatcct 180
cctttgaggc gtgggtccct gggtccagta gatgccact gttctttcct ggtgaagcga 240
tttggtctgc tgtgttatag gttctattca actaggcgtt tgggcacaac ttcgtctgaa 300
caaaagttgt gtcttcgcgt atacctgtgt ttcagtgtgt caccttcagc aaagctaaat 360
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<210> 51025

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-D7

<400> 51025

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cccgtttgct gctttttcaa agaaggaaaa ggatcagcgt tataaggaac ttggtttaag 180
 agacaaaatc acacttagta gtggccggtt tgtccttggt aacaaatagc cacggacgtt 240
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 tcagaggcta acgcacatgc ttt 383

<210> 51026
 <211> 434
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-D8

<400> 51026

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 cgtgctcgca ctcggcgga tgtccttcta cacctacctg ggtctgaaga aagaccccg 360
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<210> 51027
 <211> 335
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-E1

<400> 51027

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 cgtgtgctgt gtcggcgggt gcttcagctc cgacatactc aaggccatgg aggtcgacgt 180
 gacggacggc gtcaacgtgc tctcgctctc ccttgctggc ggctcggagg agtactaccg 240

tgacagtatc gcagtgggcg ctatcagcgc catggagaac gggatcttca tgctctgctc 300
cgcggggcaat gccggcccgg gcgcccgcac gctgt 335

<210> 51028
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-E10

<400> 51028

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cgctgctgaa cccgtcggcg gcggagccca tgggtgtggcc gtccccgttc aagtccatca 120
gcgagctgga gccggaggcc aaggcgctcc ttgaagcggc gctgacggaa gccaacaggg 180
agagggagga gaagatcctc aggggcacca agcactctcc gcatactccc acctgggacc 240
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tgaccgctga caaatgtggg acctgatgca tcacgcacca ttttgcgctc acttgactgt 360
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<210> 51029
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-E12

<400> 51029

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cgccaaaagc tgcaggaaca gcaacaggcc attgagctcc agagccgaca cctcatgggt 180
cttcagcttc tcgaccttaa tgctcagcgc tgatgctgca gcagcatcgc cactgccgac 240
accaattgtc tataccttcc aatccagcct acctgtgagc accaccgag tctagtcgcc 300
atcgacgtca ggtcctggc agcagctgct aaagctgagg agcggatttg ctctggatgt 360
gaaggccaac tgtggtgata aagatgaatc tgctcgcgag gcg 403

<210> 51030
 <211> 387
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-020-Q1-K1-E2

 <400> 51030

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 cgccgcgtcc ggggtgaggt tcagcgtcgc gctgcacctg gagcccaaga ccgcgctcgc 180
 cctggccgcc gccgatggcc tcttctccgc ctagctagct agctagccta gctgcttcca 240
 ggcccttctc ctgagtgagc agagcactga gcagcagtag tcgagttctt ctggaccata 300
 taatacaatg cgcgggttcac ctgtacattc attcttcgct tctcctgcgc tcattgatat 360
 gcgcactctgc ttgattggtt tctccct 387

<210> 51031
 <211> 415
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-020-Q1-K1-E4

 <400> 51031

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 cctatagctt ccttcttcc ccatacctt ccatcaatta tagcttcaat atgtgaaaac 180
 ccagctcttc aaccatatag gcttcaacaa gcaatcgag caagcaacat acctttatcg 240
 cccttggtgt ttcaacaatc gccagcccta tctttggtgc agtcattggg acaaaccatc 300
 agggcacaac agctgcagca actcgtgcta cctctgatca accaagtagc tctggcaaac 360
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<210> 51032
 <211> 392
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations

<223> Clone ID: LIB3079-020-Q1-K1-E7

<400> 51032

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caaccagcca agtttcttga gtcagaagga tatcgacgaa gcgagtgagg cggataggct 180
ggcaaacagg ccaccactgc caacgggtgc cagctctcgc gtggtgaggt ctttcgatca 240
atcttcgtcg tgttcttcca atggagagat ctaagtgatt gctggtgcac cgcaattgtg 300
tacagaacct acttactatc gttctgagct ctggtgcttg ggcagcttcg ccacgcaacg 360
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<210> 51033

<211> 359

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-020-Q1-K1-E8

<400> 51033

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tgacaacagg gtgcaccccg ggttcggccc cctctcagag aaaacgaaat tctaccaagg 120
attccgttgc cctgtacgcg gtgcaatgct ataagtgcta caaatggagt acggttccaa 180
aagaagaatt tgagacgctt cgtgaaaact tactaagga tccatggttc tgcagcagac 240
gaccagacag ctcttgtgaa gacgatgctg acattgagta cgacagcagc cgcatttggg 300
ttttggacaa gccaacata ccaaagcctn caccagagac ggagaggcta gtggttatg 359

<210> 51034

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-E9

<400> 51034

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tgttgaaaat ggcaagaggg tttcttggtg gatggtagac atcggacagg agcaccagtt 120

gatgtgcaac tactacacgg tgaggcagga tggctccaca gcattcatga ggtcttgggc 180
 tttccagga tccatggacg gccggaactg gacaagcctc cgtgtccacg acagcgaccc 240
 taccgtctgc tatccaggcc agttcgccctc ttggcccatc gttggcccgg cgcccttct 300
 gcccttcga ttcttcaggg tcgccctgac aggccctgcc gtcggctgta cgtggaacct 360
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<210> 51035

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-F1

<400> 51035

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 actcgccatc gacgccgacc taggattccc cgcctatacc acgcaggaag atcagactag 180
 ctccgacaaa agcgatgatt cgggtgaagg tttgaggga ctgactgtac agcagaggaa 240
 cattgccaac ttgcaagtgg agctacaggg aagaaaggat gatgaaaaca ttgctcattt 300
 gactcatgtg agtgagattg aaaagaagtg cgagtctttg gccagaatga ctgcaatatt 360
 gaaagatgtc attcataaca cggatcgt 388

<210> 51036

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-F10

<400> 51036

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 tagactttga cccgctcgat gtcaccaaga cctggcctga ggatatcatc ccgctgcagc 180
 ccgttggacg gatggctctg aacaagaacg tcgacaactt ctttgcagag aatgaacaga 240
 ttgctttctg cccagcgatt attgttctct gaattcacta ttctgatgat aagctgctcc 300

agacgagaat cttatcctat gctgataccc agaggcaccg ccttggtoca aactatctga 360
tgcttactgt gaatgcacca aaatgtgccc accacaataa ccaccatgat gggttcatg 419

<210> 51037
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-D4

<400> 51037

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agaatcagga actggagagg aaacaggcag aaattatgga aatgcagaac aacgaggtat 120
cagaaatgtt gaaggatcca ttcggacgga agaaacggct gtgcttgcca agaacgttga 180
cggccccctg gtgacgattg cctagaacag cacatgactt gcacttgcta cgtacctgca 240
ggggcgtttg ggatctgtag ataatttctc tcctatagtg tagcgatgaa cccatgaaca 300
tgaacataat ctaaagattg gtactgttag ctcccttctg ccgcttacgt agtactggag 360
taccgtattg gtggagtcga aaactgacat gtaaattatg tacgtagtag agaacaaaat 420
g 421

<210> 51038
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-B8

<400> 51038

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gacgagcatc cgggttagag aggaagaaat tgcaaccgaa acaatggcgg cagattccgg 180
cgctcgaga caaccaagct tcaccaaggt cgaccagctg cgccctggaa cccacggcca 240
caacctcatc ctcaaggttg ttgactccaa gatggctgctc cagagaggcc gcgagggagg 300
gccccaggga agacagatga ggattgcgga gtgcttggtt ggtgatgaaa ccggcatcat 360
tgtcttact gcaagaaacg atcaagtgga tgtaattagg cctggaacaa c 411

<210> 51039
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-B9

<400> 51039

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tcaaagaacg tatacagaaa aagcttaagg ttccagatga ggatttctca aagtgggaagt 180
ttgcatacat ttactcgggt cgtcctgact attttgaaga ttcagatact gtagccctaa 240
aattccagag aaacatgtat ggagcttggg agcagtatct tggactggaa catccggaca 300
cggctcctag gaaggcacac acggctaatac agaaccggca ttcattcgag agacctgtaa 360
aaatttataa ctaggcatgt tagaaattga gcgatgagct 400

<210> 51040
<211> 348
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-C1

<400> 51040

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tttatccgaa gaagttaggt ggaggagcag tggtcagtgg gtgggtgcct ttcagttcat 180
cagtcactga gaggatttca cctgaagcga ggaagacccc gtttctttgg tcacatggaa 240
tggtctgaaa agtagtattg tttgaagctg gccaggctgg tccaccgttt ttgcaaagcg 300
ctggtgttaa ctgtgagttc aaggcatatc cagatctggg tcattcgc 348

<210> 51041
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-C11

<400> 51041

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gagcagtcgc catgtctggc atcatccaca agatcgagga gaagctccac atggggggcg 120
accacaagaa taaggaagaa gagcaccaca agaaggccga agagcaccac aagaagaag 180
aaggggagca ccacaagaag gaccgccggg agcacaagga aagcatcgtg gagaagatca 240
aggaccagat caccggcgag caccgcgaca agttcggcga ccaccaggaa aagaagaca 300
agaaaaagaa gaagcacggc gagggccacg accacgacgg cggccacagt agcagcagca 360
gcgacagcga ctgagatctg gtgtcgcagc acaagtgcaa cacatgtatt cttgctggat 420

<210> 51042

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-C12

<400> 51042

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gagcactcgc catgtctggc atcatccaca agatcgagga gaagctccac atggggggcg 120
accacaagaa taaggaggag gagcaccaca agaaggccga ggagcaccac aagaaggagg 180
agggggagca ccacaagaag gacggcgag agcacaagga aggcacgtg gagaagatca 240
aggacaagat caccggcgag caccgcgaca agtccggcga ccacaaggaa aagaaggaca 300
agaaaaagaa gaagcacggc gagggccacg accacgacgg cggccacagt agcagcagca 360
gcgacagcga ctgagatctg gtgtcgcaac acatgtgcaa cacatgtatg cttgc 415

<210> 51043

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-C2

<400> 51043

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aggacatatt tgtttgtgga ttcagtcaag gaagcgtctt gacattaact agcgttttgc 120

tttatccgaa gaacttaggt ggacgagcag tgttactggt gtgggtgcct ttcagttcat 180
 cagtcactga caggatttca cctgaagcga agaacacccc ctatctttcg tcacatcgaa 240
 tggctgacca agtagtattg tttgaagctc gccatactgg tccaccaatt ttgcaaagcg 300
 ctggtgttaa ctgtaacttc aaggcatatc cagatctggg tcattcgctt tccccaaaag 360
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<210> 51044
 <211> 366
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-C3

<400> 51044

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 gatgttcaat ttaatatgtg aacttccaga aacagtagcc agaactttgg ttccaaggat 180
 gagagtgtga aaaggaagtg gaaaggcaat caactactta acaccaccaa ggatcttgct 240
 tgctctggtt actgcatggg ttcgacgggg tcgatggtt gacgacgagg gaagagcggg 300
 gtatgcagct gaagctgata gaattcgcaa ctgggctgaa agtcgagcac gcttctcgct 360
 caccga 366

<210> 51045
 <211> 388
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-C4

<400> 51045

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 aagttctctg ggttacctct ttggaagcgg agagccctcc aaacacatca gtggcaccag 180
 ctgatagtgc tccacctgct gctgcagggt ctccacttgc tgagaaacca cctgctgcaa 240
 agcctgatgg caccagtcag attgctgctg gggctaccag ctcaaccaat tactaccaca 300

gggcctacag ttagaacacc ggaaactttc ttacggaccg tacttcgacc aagggtccacg 360
 ctgatcctgg ccgtggctat ttcctggg 388

<210> 51046
 <211> 246
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-C7

<400> 51046

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 gaaagcaagc ttggcaccga gttgcttcgt gctattgaca aggctggata tgaaaaacca 120
 tcaccaatcc agatggctgc cattccgtag gtctacaaca acctgaaggt aatgggattg 180
 gttaaaccag gttttgaaaa aactgcagcc ttggaactcc caaggtggcc taacattacc 240
 caattg 246

<210> 51047
 <211> 333
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-C8

<400> 51047

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 atcaacagtt gcttgagact tcagtaactt tgctacactg aggcagcttg ctattgacaa 180
 ggttcaaccg gtggtgatat ctttgaaact tgggtactctc atccagtatc tcagtgggtc 240
 ttcactgcgc atgctttcag tcggtgaaga atcatgtgaa tacttcagga cgatggagtc 300
 tatgtgcgcg tccgatctaa ctgatctgat agc 333

<210> 51048
 <211> 385
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-020-Q1-K1-D1

<400> 51048

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ctgaaaatct ataatgactt cattgacagt caagaaagac gcaggatcga acggttagaa 120
ctgtttgatg agtttgaaga gtggtatatg atgcaggaac actactgtgt ggcctatgga 180
atcaacgacg ccgagggcat atttgacagt tttggatttg gggagacata gcagcactgg 240
tgccttttct tctgtgggta ccagctgcac ttgttgtaaa ccgacaccat taattcaagt 300
attactcgaa gtaaactttg cttgattaaa gaaggaacga ttgcttgata aaagaaggaa 360
cggacagggg taggatacct aaaca 385

<210> 51049

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-D10

<400> 51049

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cggcgcgcgc aaggggtacg gcggcggcgc cggcggcgcg agctgcaccg tcgactgcaa 120
gggtcaagtgc acggcctact gttgattcga ctcgctccgt gctggcgcgt agcggtttgg 180
cagtgggcgc tgctagtggc tggcggtggc ggcctgctag ctgctgttgg tgtgatggcg 240
cgtgtgcgtg tcggtgagct gagtaccggg tggttaactt gtgttatcat cccaatagt 300
atactagcgt acttctcggt ctggggacta tttatacgta gaccacgata tgcgtagggg 360
cggtttattt ctaagataag aatataagat gctc 394

<210> 51050

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-D12

<400> 51050

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caaatggtgc caaaaagtac attggtgttc ctgggcaaag gccagataag gagacgaata 120
 aaaatccaac tgaaccccc ataccactta gagtcaagaa gcgtgggtcc aggaagaaat 180
 ggaacaagag gaaattcagg aggatggctg accgaattgt tgatgctgga aaggatgcag 240
 aggggcttgg aacgcttcta catgatgact atgaggaagc tagaagaata ggatatgagt 300
 tacctacaga tactgctatg gttcaattta acaaggaagt tgtaatgaca caacctgggtg 360
 aaggagatag gatagtacaa ttggagccac ccagagat 398

<210> 51051
 <211> 403
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-020-Q1-K1-D2

<400> 51051
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 gacactggtt tcgtgtttga acctggttct gtgcttgtgg agtttttgcg ggaggaggct 120
 gcttgcatgg ccgcacattc cttacatggg cgtcgcttcg ggaacagaac tgtgcatgct 180
 ggatatgctc cgtatgatct ctacttcag aaatacccca ggtgattctg cgtttgcgac 240
 tgcagtgatt gcgatacgag ctttgccat gtgccagtat ttcacagaaa cttcagactt 300
 gtagttttgg cttttgagcc tttggatgg tcttccggtc cagatagtgg taccaftagt 360
 tgaacgaaat atttgaaat gttgntccac agtagatatc gga 403

<210> 51052
 <211> 376
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-D3

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 tggggcgag tgccgacgc gacgggtggt gcagtccgc tgccacacgg aggaagtcga 180
 gcccgccga tttgtccga agtgcgagaa gacggagcag ctctccgcg actgcgtcgg 240

caggccctct gaactggtgg aatccaaaac tgaaaacact gaagaagatg tcacagaaga 300
aatgaagagc ggttcacttt ctcttggggt tccaagaaac gagcccttcg cattccctgg 360
actccgcagt gacatg 376

<210> 51053

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-B7

<400> 51053

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aagatcttgc taccctagcg cattcccaag gaatcataat cgaggaaatc gacatgaaca 120
ttgacaattg tgcagcagtg accaacgagg caaagacaga ggtcgacaaa gcacacaaga 180
ctcatacatc gaattcgtcc ctgacatgct tgcttatggt catattcggc gtcttgctgc 240
tcgctgtgat tatagatctg gcagcttgag acatgcaacc tcctctctta cagagctatt 300
ccgcggaatt cacaattgga gattgctcgc agttcttatt taaccatcac atccagtgcc 360
acaatag 367

<210> 51054

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-A2

<400> 51054

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tggtttactt caagccgctg ttcatgttaa agaaaagaag attcacaaag ctgaagatgt 120
tcttagccag tacgctgaga agcgtcctga gaattctaaa gggctcctcc ttgcacttgc 180
ccagattgct gctaatacca accattttca gcttgctgct gactcactat ccagaatacc 240
tgacattcag cacatgcctg caacagttgc tacattagtg gcccttaaag agcgcctagg 300
tgactccaat gctgcagctt ctgtacttga ttctgctatc aactgggtgga agaattccat 360
gaccgaggat aacaaattag atatattaac acgggaggct gctgcattta agctcagcca 420

tggacgtgat ga

432

<210> 51055

<211> 340

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-A3

<400> 51055

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aggcagggtg aagaccctgt gttttgttaa tgacaataac aggaatgctg ctattaacct 120
gaatctgcct ccagagagct atagttcaaa cacaaccaac ttaattgatg tgaacattga 180
gcctgctgac tcagccctta gtgcacatgc taagcgcaca aaggagtcc atttctgttc 240
aactgatttt cctgaaccca gtaagtctgt gccttttacg ttggccacta cctctttgtc 300
tgcagcagct gctacaaacc aaactggtga tgttcccatg 340

<210> 51056

<211> 400

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-020-Q1-K1-A4

<400> 51056

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gggtccccaa tgatcgagat aagtgtctctt actggggata atgttgatga acttctggaa 120
actgtcatgc ttgttgcaaa gttggaagaa ttaaaggcaa atccacatag gaatgccaag 180
ggcactgtta ttgaagcatg ccttgacaag gccaaaaggc ctcttgctac cttagttgtt 240
cagaatggaa ccctaaacaa agctgatatt attgtgtgtg gtgaagctta tggaaagatc 300
cgtgcattgt atgatgactg tgggaagctc gttgacaaag cangaccatt caatgcagtg 360
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<210> 51057

<211> 311

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-A5

<400> 51057

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agatcgagct agtccttctc acaaaccgc atgctttact gatacaccta caaatcttca 120
tcttaacaca catatatctc cactacatct aatcctcaca cacatccacc attaattctca 180
tacctaacac ataaccctct tcacttatcc catacttcac atactcaacg cacaaacgaa 240
ttccactatc gtctaactga tcctcaccat ccccataata ctgatccttt cactttccac 300
actcaatatt a 311

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<210> 51058

<211> 235

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-A6

<400> 51058

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aaaaacttaa aaccgagaag aacatattaa aaaaaaaaaa ctctctaac ataccattc 120
ttccttacca ctacactcaa aatcattccc cttattttta aaaacttctc cttacactta 180
ccccattgt tcctaacccc accattttta accccactgc ttactcocta tccaa 235

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<210> 51059

<211> 289

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-A7

<400> 51059

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aaaataaaaa agggctgcgg gcatttaaaa ttacaacaac gattgctaag aacaacatta 120
ccattgctcc actgttctat actcatttac acatgtcaat tcctcttcac aatctataca 180
cactctttat aaaaaactta tatcatacac aaaccttaat ttttactctc gctactcttc 240

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cgtagcaaca tccaatctca ctcgatataa atccctttca ctatgacct

289

<210> 51060

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-A8

<400> 51060

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agaggccgtg tggctcgagc tcccgccgtc ggggaccaag tgcgtctccg aggagatcca 180
gcccacgctc gtagtgctcg ccgactacgc tatcatgtac gagtcccacc ccagctcgca 240
tcccaccgtc gccgtcaagg ttacatcacc ctatggcaat actgtgcatc ataataaaaa 300
tgctacaacg ggccagtttg cattcaccac ttcagaagct ggaaactacc ttgcatgttt 360
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<210> 51061

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-A9

<400> 51061

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gaggtactgt gtggagggcg aagggttcgt cgagcggcac aaccccagtg gagaatcctg 180
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acttcaggtt tgacaccgca agcatcctgc aggccatgga ggcttccttc ctacgcacct 300
agaatcctga cgaagcatca acacctgcac cc 332

<210> 51062

<211> 285

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-B1

<400> 51062

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ggcatctgct tgagctgctt ctacacccaaa ttggcctgcg cgtaaaggag ggatagaagc 120
agtggaaccg gagcctctat gattttttat gcatatcggc cgtgcatggc tgaattctgc 180
tacctgactg ttaacctgga accgggaccc tctttgcatt ttgttcatgg gttcgaaggc 240
aatgtgaaaa aaaataacac aaaaaaaaaa ccttaaaca taacc 285

<210> 51063

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-B10

<400> 51063

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aactccttcc tgtttaatgt tgggctcata ctactttgct ccatcagtgt gattcagttc 120
tgtgccacgg cttttgccta ctacgcacaa gcaactgcag ctcaagagat atttggccac 180
actttgcaat cccttcgtgg aattaagtat ctttacaagt acaatgtttt ccagtatggc 240
tttgttgctc ttgccatcct cactctcttc tactatgcta tatttggatg gagaaagg 300
aaaccaacag gaagattcca gctctcaaat tgatttgctc tgtaagtga gtttgacgga 360
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<210> 51064

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-B11

<400> 51064

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taccaccatc accgtccagg tcaagttcgc cgggaggacg atccccgtgg aggtcccgcc 120
agcggcttcc ggcgcggagc tgaagcgct cctacagccg ctgaccaatg tctcccgcg 180

cggccagagg ctcatctgca aaggcaaagt gctccaggat gccgcaagcc tgagctcgat 240
 gcaagtagtg ggcggatcca aggcgatgct catcgcgctg caagggctcc atcacgggga 300
 tggctctatc acaagtcac gcatgagctc agcaacaact gtgagaaggc cttcaaatgt 360
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<210> 51065
 <211> 390
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-020-Q1-K1-B12
 <400> 51065

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 tgatggaggg tcttcaggct cttcccttgg aggacgttgt ctctgaagct gacatcttcg 180
 tgaccaccac tggcaacaag gatatcatca tggttgacca catgaggaag atgaagaaca 240
 atgccattgt ctgcaacatt ggccactttg acaatgaaat tgatatgctc ggccttgaga 300
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 agaccaacac tggcatcatt gtccttgctg 390

<210> 51066
 <211> 380
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-020-Q1-K1-B2
 <400> 51066

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 atgttgagct actagtggag atcatgaggg cacagagcaa caaccaacat gttgtgccaa 180
 gtagcgtcct tgtgaatgat aactttggga tgctgtcaaa acccatggac aacatgaaag 240
 tgatagaagg gtatctaata gatgagatgg aggccatgag gattctagag gagcaaccaa 300
 atatgctgaa tgtcattcat aagaaaaaga ggcattggagt gaagttttgg accacagacg 360

agcacaggaa ttttcttcgt

380

<210> 51067

<211> 397

<212> DNA

<213> Zea mays

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<400> 51067

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tagtgtagat aattttctct atgcaaagc aattggttaga gaccgcattt attctatgat 120
ggtatTTTTT agtaccaaca atggacaagg accccatcga aatggtagag agcacagtgt 180
gagtgatcca gggaagcctt gatattcattc gcagcctggc cactaatggc gttgtgaatg 240
taaccacact cagtctatct attcccttaa gaccacattg tttcaaataa tagatgtgtg 300
tgacatgctt gacaagtgtg tcgtctccat gatttttttg ctaaagctaa gagggaagaa 360
gttattcaag cttaagatac atccaccaca acagatg 397

<210> 51068

<211> 282

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-G11

<400> 51068

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gaacacgacc atgaccatca tcaccatcat gatcatgatc atggtaagcc ttgatgttgg 180
aacattatta tggcatgagc tgactgacgt ggtagtatca aactcctgat tctctatgat 240
cagtagcact cacttgtacc accaattagg aaatgatgtg ca 282

<210> 51069

<211> 340

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-G2

<400> 51069

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ataactgtaa acgtatataa taaatgcagt cattgtcaca ttatgcttgt gaagtcctca 180
taggaaagga taactcttga ataaaatgct ctggaaagta cctgcctaca atctggactt 240
gcgaacaatc gaataaatgg tgacaatgag gctaattgtc ttacgttgta cttgatgaac 300
tctagagtat tatcactcgt caaactgaaa acgggaacta 340

<210> 51070

<211> 168

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-G4

<400> 51070

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accacccctc ctctcacttc acgaagcttt tatccaaatt tagacctaac ctctatttcc 120
ttctaattctc atcaacaaat acaacaccct aatcatcatc taccaaca 168

<210> 51071

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-G5

<400> 51071

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accgcgggga gccaggcgcg cgatcgagcg agcggaggga ggaggaggat gatgcacgcc 180
aagtccgagt cggacgtgac gagcctggcg gcgtcttcgc ctccgcggtc gccgaagcgt 240
ggcggttgccg tggtcggcac cggcggcagc tgcgggcgct actacttgca gagcccgtcg 300
cggtagtcgc acgactgtgg cggcagctgg cgcaaggtgc tcaacgacca gggctggacc 360
gagtgc 366

<210> 51072
 <211> 261
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-019-Q1-K1-G9

 <400> 51072

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 tcaactccaa taatcacctc ctccaacctg ctcttcaatc tgcggaacct cttctacctg 120
 caccgctacc aagcatccat catcaacagc tacgatccta gactcgactc caactcctac 180
 tctgagctcg acaccatata ataccgctcc tacatcgccc tcggctccta ccacttggtg 240
 atcatctaga tcgactcgtc a 261

<210> 51073
 <211> 432
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-019-Q1-K1-H1

 <400> 51073

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 gagcttcgag gtgtcgccgg cggccctggc cggcgccgag acgctggacc cggcgctggc 120
 ctacgacgcg gagaagctgt gcggcgtgaa gcgcgaggac gtgaggggag gcgtggggcc 180
 gttcgggctg tgggtgctgg cctncgcaa cgcgaaggag agaaccgccg tgttcttcag 240
 ggtgttcaag cccgcccgcg gcagcgacaa gcccgtggtg ctcatgtgca ccgaccctac 300
 caagtcgtcc ctgaaccga acctgtaccg nccgacattt gcaggatttg tcgacacgga 360
 catctcgaac ggcaagatat ccctgagaag cctgatcgac cggtcggtcg ttgagagctt 420
 cggagccggg gc 432

<210> 51074
 <211> 311
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations

<223> Clone ID: LIB3079-019-Q1-K1-H11

<400> 51074

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ttggacctgg ccattacac atgggtatga atgtaattac aaggggctaa ccccaaaacc 180
ctaaatggga ttctaacaaa gttgtttttt ccgttggtgt taatcatata agtattagca 240
tttcagttga attttctact ctcaaata ttgaatgaac tggtttaca ttctagtatg 300
taaattattct t 311

<210> 51075

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-H12

<400> 51075

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tgagccactg gggaactgtg ggaagaaggc cctactgtgg tggcttcgtg ttgaagcacg 180
ggcggatagc aagtttctc aaggggtgggt aattgagcca cctttggaag tcgtcgtccc 240
cgcaaagcgc actccatggc ctgaaaccac ccccgagctt ccatccgagt tattggatga 300
caagcaaaag ctggaggata ggcaattgtc aagaggcaac aaatcgtctc agccccgagg 360
caccacgaaa cggaaggggc accctcaagg gcaagataac tgatggagaa cgcactggca 420
ttgtaatgta tatctcttgc accctgc 447

<210> 51076

<211> 57

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-H4

<400> 51076

cccacgcgtc cgaaaaaaaa aaaaaattat taaaaaaaaa aaaaaaaaaa acaaaaa 57

<210> 51077
 <211> 426
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-019-Q1-K1-H5

 <400> 51077

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tcccgcctcca cctctacccc tcgctcgcctc gctctttctg cgcagtttcc ccggccgccg 120
cctcggccgc cccggcgctc gcctcggccg ccccggcgctc cgccaaggctc gccgatcgca 180
tcgtgcgcgt cctcgccatc gatctcgagg gggcgcgccg cgaggctcgc ggcctctccg 240
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tcgaggatat cgacgcgtgc tccgccgagt gcgaggcca catcgcgag gagtggtcgc 360
acaagctgcc gncaccgtcc tacgaggagc ggtacgtgct cacgcgcgcg ttcaggaacc 420
gcgagc 426
  
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<210> 51078
 <211> 433
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-019-Q1-K1-H6

 <400> 51078

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ggtgcaaggc caactctgag gctaccctcg gcacctacaa gggatgatgct gccgccgaca 180
ccgagagcct ccacgtcaag gactacaagt actgagttgc ttctctttgc gtgcccgttt 240
tggaactcct gcctacgagc taggttgccg agtggtggtt gctcgttaga gcttattttc 300
ggacatccaa aaaacatgct tcctatgtgg gatgatgggt atctttatat ttgtatgtta 360
attagtctct ttgctgttaa atttcgtgta agttggtcct gccgatggag aatcgagcag 420
ctcccttttt tgg 433
  
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<210> 51079
 <211> 418
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-019-Q1-K1-H8

 <400> 51079

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 acaacagctt cggcagcaca ccagtgctt atggaggctt ctacggtgct cctccccctc 180
 cgtatggcat gccctacggg ggagctgcac cccctggttt ccaggcgccc gcaccagcat 240
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 actccttcaa cactatgacg ctcaatccac cgaacgctac ttccgagtgg tatgccgact 360
 ccggtgcagg atcacacatg acctcggacg ctggatttgc aaaccatgaa cgtgatcg 418

<210> 51080
 <211> 424
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-019-Q1-K1-G1

 <400> 51080

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 gtctacgggc caaatcaaga cgggagctcc ttgccggtct gagcgcttg ccaaatacaa 120
 ccagctgctc aggatcgagg aagagctcgg tgatgccggt gtctacgccg gagcaaagtt 180
 cagggcacca gtggagccct actaagaaag gaagaggatg gggatgtttt cttgtggagc 240
 tatactagct cgctgctgcc ttttgttaca atgtttgtac ggtcgcaata aatgtatggt 300
 cgtgtttgct cgagagctac tcaggtgatt ttgtcgtggg agcaccaaaa gcagaaaaga 360
 actgtttttt tcttctctct ctctagattc tgacgagtgg tggctctgcac tcgtcgtaat 420
 gtcg 424

<210> 51081
 <211> 359
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-A1

<400> 51081

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cgccgagtcg gacgggctcg gacgattcga cgtcgatgag cacaacaggc gcgagaacgc 120
gctgctggag ttctgtgcgc tgggtggaggc caaggagcag gtggtggccg gcacgctgca 180
ccacctcagc ctcgaggccg tcgaggccgg gaggaagaag ctctacgagg ccaaggtctg 240
ggtcaagcca tggctcgact tcaaggagct ccaggaattc agccacaagg gggacgccac 300
cgacttcacc aacgccgacc tcggcgccaa gcaagggtga catgaacctg gttggcgtg 359

<210> 51082

<211> 228

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-A10

<400> 51082

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gcgtcgttct acgtgaaggt gaagccgcag aagagcatgt gggttggctt actgaaggtg 120
gtggttggtg ctgtcaagaa ccgtgacctt gtgctgccag aggcagatca tggcgctcag 180
ttccattggt taccgggttc gacacagacg gttccatcaa aaaaaatc 228

<210> 51083

<211> 262

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-A11

<400> 51083

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gcttatcgct cgtacttgaa gcgcatgctg caccactagc atgtgagacc acttacatgt 120
gctagagggt ctgtctggaa agaaacggga ccttctactg gcacacgcac atcatagaac 180
tcagttgctt tagctacctc tgacgtacaa cacgctgcc a tccgacatga tcgcagctct 240
gaacacttca tgcattgacac cg 262

<210> 51084
 <211> 398
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-019-Q1-K1-E5
 <400> 51084

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ggacctattc cctaactggg atgcaggtgc aagtgcgaaa aggaaagatg aagatagcat   120
tgcttccgca tcagcttcaa agggggcccat gggacctgtg tttagcagtt taatgtatga   180
ggaagacgaa ggaaatgaat cagaacttgg tgacatccat gtttcagcaa gggaaggggc   240
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aggtagaagt ccgttgcact gggctgttga tcgtggccat cttagtgtcg tcgaggttct   360
tgcaaatgca aatgcagatc tgaatgctaa ggacaatg                               398
  
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<210> 51085
 <211> 428
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-019-Q1-K1-E8
 <400> 51085

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tatcaaagtt tcgcaatagg ccattccctc ttttttacag tttagaaggg ctatatgaag   180
gtagtgtggc taccggagag ttgaatttca catcaaccgc tgttgatctt cctccacctt   240
cagctccatc caggagtgtg tctggacaaa gtctcagtc tttgagtact aattcacttg   300
atttgatggg acaagaaacc acaagtgtgt tcaatctatc ttgtgatgct caatctgtcc   360
gagtcaatac taatgaacct actgaagctc aatttgtccc atctaataa gaatcaagcc   420
agagagaa                                         428
  
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<210> 51086
 <211> 418

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-019-Q1-K1-E9

<400> 51086

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 ccgaccgctc caagcccata tacgtctccg tccggggcaa ggtctacgac gtcacctccg 180
 gccgcgggctt ctacggcccc ggccggcgct acgccgtctt cgcggggcgc gaggccagcc 240
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 ccgacaagga gctcggcgct ctcgcgcgact gggagatcaa gttccaggcc aagtaccccg 360
 tcgtcgcccg actcgcgcgc gacgcctgaa ctgcgtcagtc ttcgtctaaa tttactct 418

<210> 51087
 <211> 410
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-019-Q1-K1-F1

<400> 51087

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 cagacaattc taagcttatg agctttggct caaaccacca atatcttgaa tgtataaaat 180
 ctgcatatga ttttgcaagt ggtgaattgt tgactctgat gaaagataag tatgatctca 240
 tcgggaaact ccgatccctg aagcgcctatc tactccttga ccaagggtgac tttttggtcc 300
 attttatgga tattgctcga gaggagctta caaagaaacc agaagaaata tccgctgaaa 360
 aacttcagtc tctgcttgac attgctttac ggagtactgc agctgcttca 410

<210> 51088
 <211> 222
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-019-Q1-K1-F10

<400> 51088

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ggaaagacag ttcatcccat aaaaggacat cgggactact catttgcac ggcttggagc 120

cctgatgggc gaacatttgc taccggcaac caagacaaga catgccgaat ctgggacgtg 180

aggaaccttt caaaatccgt ccatgtgttg aggggtaacc tt 222

<210> 51089

<211> 414

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-019-Q1-K1-F2

<400> 51089

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accatgaaag ggcagccaag aggcagcgag gcagtggtag tgaattctta gattctgagg 180

ctgagttttc ccttccgcgc cacatcttcg agtcgagttc aggtcagag ttccaacaat 240

actcaatgtc ctactcagga cagtagcttc tgatgttcac atcatctctg caccgttgct 300

agcttggtca gcacgatgag catgggtcgt aggtctgggt aggttgatgt ctcaaggagc 360

gtgttggttg taaacaaagc tgtangtgtt cagtgtgtgt ctacatggta tacg 414

<210> 51090

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-F3

<400> 51090

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tcacggccca tgcattgagc acaaggactg tgccaactcg tgcgttcaac ataacctcgg 180

tgtcggcggg tattgcaggg gcaagatccc attcaacaaa gaatgcatgt gtacatttga 240

atgcccatga gtcaaaagcc actatatctg acgggcgcaa cttgttatat atctagggat 300

gggatgtcgt ttggcatgtc ctccattttg aaagtgtcca agtgagactt tatacatata 360
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<210> 51091
 <211> 410
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-019-Q1-K1-F4

<400> 51091

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 acatcttgac tatgaccatc tcacaccagc agagcgccga tacatgaaac agaagcagaa 180
 gatcgacatg cagaagatag ccaaagtcgc caacaagtca cacaaggacc gcatgcagga 240
 cttcaaccag tacctagcta agctcagcga ccactacgac gtccctaaag ttgggtcctgg 300
 ctaacatggc caatctagct gtgttacgca cgaacaattg tatgctgagt ggggtctatct 360
 agttntctat tagcatttta tatatcgttt tacagttgtt gtaaaacgac 410

<210> 51092
 <211> 433
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-F5

<400> 51092

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 agtgatttga gctccgttct agtgggtgaac tttgtgatac tcatttgagc tcaattcttg 120
 gctgtgtgtg tgcgtatttg ctgtggattt gagtgtgttg ctccctccc ttactctagt 180
 gctttcactt tgattcttat tgtaaggggt agagactcca agttgtggag attcctcaca 240
 agcgggaaag agtaaagaaa gaagaacacc gtggatttca agtcgatcat tggatcactt 300
 gataggggtt gagtgaacc ctcgctcggt gggacgccac aacgtgtagt atgcaagttt 360
 tgtacttggc cgaaccacgg gataaatcct cgtgtctctt gtgctagatc tcactatgtc 420

tattgtattt cac

433

<210> 51093

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-F6

<400> 51093

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caccgaggtt cttacgcgcc tcgcaaacat aaaagctgct aagtgaatct ccaatggaac 120

tagaccgaca ataaatcgga agcagctgtc ttgttgatcg aggagcgcgg aatctgcaaa 180

ctggcccttc agtgttttgg atgtgctgcg gaaacgtgtt atgatgtgta tataaaaaac 240

gtagcatgtg ctgcatgaac tcctgtagga tgtctaacta ctgaagtgca gattcagcct 300

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<210> 51094

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-F7

<400> 51094

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aagctcacag cgctgttggtg tttaaaggctg agagcatggc ctacaagggtt gagtgggtaa 120

ataagatcaa agctgttatt cacagcaaag ggggttcttt caagggtcca agtactgagg 180

gtagttcaat gagcgcaaag caattttgat ggcgctttag atactatggc acgtacacct 240

gctgatcctg aagaagaact tacatggatg tctcaagaag ttcgtgggtta tgtcgaggct 300

gttctgaata gtctggcagc aaatgctcca aatgctattg tgctttgtca agtggagaaa 360

gcaaataag acatgcttaa ccagctatac agc 393

<210> 51095

<211> 423

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-019-Q1-K1-E4

<400> 51095

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cgatgcagaa attgaaaaac cttgcaaaga ggcaggaatc tgagaacatg gccctcatac 120

agaaaatctt gaaagatgag aaggaactgg cgactcggca gcaggagggtg cttgatggaa 180

actgcaagaa gtacgacatg ctggaagctc tagtgcagaa gggagacatc actaaccttg 240

ctcaacaata cggagtgaac ttgaacgact gatgagtcac tcgtgtcttt tcccccttc 300

cccttgagc gatggcgcaa ctgggtgtgat gatgatggaa taggatagca tgccatagtt 360

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ttt 423

<210> 51096

<211> 395

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-019-Q1-K1-C7

<400> 51096

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gggctgctgg ggctcgggcg cggcgggctg tcgttcccga ccagatctc ccgcccgtac 180

ggccggagct tctcctactg cctcgtcgac cgcacctcct ccggcgcggg cgccgcgccc 240

ggctcccacc ggtcctccac cgtcagcttc gggcggggct ccgtcggcgc gtcgtcggcg 300

tccttcaccc cgatgggtccg caaccgcgc atggagacgt tctactacgt gcagctgggt 360

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<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-C9

<400> 51097

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agaggatggt ctttcacctc tcagtgtttt gcggaaagtt gcacgatcat tgtgcatcat 120
cttgagctat gcatctttctg caactgttga tcaaatatat acttgtgtgc tgaatggtga 180
aaactcttcc aagtcttcaa tcttacactt agcattgctg atagaaggat ttcctttgga 240
ttcattgtct gatggtacaa aggaacttgc tatgaataaa atgtttacct cttttgctgg 300
ctatctggag agctactcca agaaccaccg atttatcaat gtgccaactt gttaattggg 360
cgtttttagga cttcctatac atgctttaac c 391

<210> 51098

<211> 238

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-D10

<400> 51098

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tatctaccat agttgccggc ggcgacatca ccaccatagc acttggtccac agctgcattt 120
acagcaccaa caatactcta ctcatgagca atgccatcta cagatacggt ctgaacacat 180
gagtgtctacc gcacgaacat gatagcatgc atcatctgcg gctgggttacc gacatgca 238

<210> 51099

<211> 397

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-019-Q1-K1-D11

<400> 51099

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ggcggctcag ctggccgtcg cgtttctcgc cttgttgtcc tctctgtcct tcttgccgt 120
gtctggccag aagttcaacg ccattctcag cttcggcgac tccatgtccg acaccggcaa 180
cctgtgcgtg aacgggtcccc ccgccggcct gacgtcacc cagccgctct acggcgagac 240

cttcttttggc cgcgccacct gccgctgctc cgacggccgt ctctgctcg acttcttggc 300
cgagaaattc gggctgccgc tgctgaaacc gtctaagcat ggcggctcag acttcaagca 360
nggcgccaac atggcgatca ttggcgcgac caccatg 397

<210> 51100
<211> 250
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-019-Q1-K1-D12
<400> 51100

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caaaagtaaa gcagtcatta ttgcaaacc tgcacttct gaattcgagg ttgttagaac 120
tagcctgatg tcgtgtttat taaaaacact gaaacataat atagaccatc caagacctat 180
aaagattttt gaagttggtg atgttgtgat gctggactcg tcacgtgatg ttggtgcctc 240
taataatcgc 250

<210> 51101
<211> 213
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-019-Q1-K1-D2
<400> 51101

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ccaagaccc cttgaggtc tttaaccct tgaccctga ccattttcaa gtttaaccata 120
tttcgcttaa ccacttcctt gcttttaatt ccgcaaaca ccccaaaatt cttgccaat 180
tccccgggcg cttcttccaa aaaccgtttc cca 213

<210> 51102
<211> 364
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-019-Q1-K1-D3
<400> 51102

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 ggtccccagc agttgaagga acagctgaat gaaaggtacc ctggtgcaag gcgtgctgta 120
 ctgaagactg gtgttgattt tcccttctctg tctcgtgctg atgagggttaa tctgtacctt 180
 cagctacatc tgacacgagt tgggtgtagag ccaagggtcag acctgggtcca aggctttacc 240
 cgaaatggca gcgctgggag ttcaaaggat caaaaagatg gaggggacag ctttgataat 300
 agtgggtggag acaatggcca ccatggttca ggtggcagtg atcatgacag gcggcattgt 360
 gcat 364

<210> 51103
 <211> 286
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-019-Q1-K1-D6
 <400> 51103

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 gggataatat cgcactctgaa agcatggcat ggcgatgcat aatttgttta cttgatcaca 120
 tcatgcatgt gtaacttatg gatgtctctt ggtgtataag tattgtgtga attccttctt 180
 tgccatcaaa atatatgttt attccttcta aaaaaaaaaa attaaanaat aataatttat 240
 attaattaaa aaccaatta aaaaaaattt taaaaactat attatt 286

<210> 51104
 <211> 391
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-019-Q1-K1-E1
 <400> 51104

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 ggtggtgtgt gcattgaatt ttggaagatt ggaaaggcaa tgcatattga gggtgataga 120
 agtggaaaaa ttcccatgtt gaggttccga gaccgtgaat catatgcaca gaataagact 180
 aaagagtacg atgccattgc aatgaagtac cttacctatg tacttttact ccttgtgggc 240

ggttcctcta tctattcact taagtatgaa aagcacaaga gctggtactc atggatacta 300
tattctatga caagctgtgt gtacatgttt ggtttcatta tgatgtgcc ccaattgttt 360
atcaactaca agctgaagac tgttgctcat a 391

<210> 51105
<211> 353
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-019-Q1-K1-E10
<400> 51105

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aatgatacct acctgttgag tgaacaaaag aatgtgaatg catatggtga acagatatac 120
caagaggatt tgatggagtt gttgcccact gaccagatat gcagcggaca tgaaaacatt 180
gatatggttg gaaaccagta tccatctgaa aatgcaattc aaggtaccga agataagaaa 240
ttctctatag cgtcaacttc ccagctgagt tctcagaatt tactgaatca aagacaccac 300
ttagattoca gttcaccaag caatattact tcgaagtcct atccaggaaa gtt 353

<210> 51106
<211> 382
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-019-Q1-K1-E11
<400> 51106

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ctcttcgtct caggggttaaa taaacgcaca acgtccgagg gacttaagga agcattttct 120
aaatttggtc aggttattga agcaagagta atcactgata ggatatctgg atactccaga 180
ggatttggtc ttgtcaaata tgcgactgta caagaagctg gtgaggccat aaaaggcatg 240
gatggaaagg tcagcgcacg tgtttgactg cagttaattt ccagcttcac tgttcacgga 300
agacgttaac cacattgaat gttctttata atcctaaggc cctattccaa acctctagag 360
ctaataatta gtcagctaat at 382

<210> 51107

<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-E3

<400> 51107

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agcaacgtga acctggaggg ggtggacacc tgcgccatcc tcgccgaagc ctccaagtcc 120
gtcgccaaca tcatcggcaa gcccgaggcc tacgtgatgg ttgtttctcaa gggttcggtg 180
cctatggcat ttggaggtac ccaggagcca gcagcttacg gtgagctggg ttccatcggg 240
ggcctgaacc ctgatgtgaa caagaagctt agtgctggca tcgcttctat cctggagtca 300
aagctgtctg ttcccaagtc acgcttctac ctcaagttct atgactcgaa gcgctcggac 360
tttggttga acggctccac cttctagact tgaggtctgc agctgaaata aaagaaattc 420
g 421

<210> 51108
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-A6

<400> 51108

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cccctaccgt gaggggtgctg actttgtgcg tggatacccc ttcagcctca gggaggggtgc 120
tcacaccgcc gtctcccacg gcctgtggct gaacatccct gactatgatg ctcccacaca 180
gctgggtcaag cccaaggaga ggaatgagag gtattgcatt ttgctctcgt cttttatctg 240
acattctagc aactgccttg ctgctgcatg aagggttggg tctaaactccc ttttttttca 300
ggtatgttga tgctgtcatg acaatcccca agggaacctt gtcccccatg tgtggcatga 360
accttgccctt cgacagggat ctcatggcc ctgctatgta ctttggtctc atgggtg 417

<210> 51109
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-A9

<400> 51109

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ttgagttttcc aaaagaattc caaaatgatg gcacgacagc agactgtgat ttcagaggtg 120
gtgcaggtgg tgccatcgat gaagcaactg gaagcaaagc tggaatggaa attgcagaac 180
ctcgttcccc aaagtttgca tctgatgacg atgctcctga agattcaaata cataaggatg 240
agaataaacac acagactatg agtggaaacac cagtttagaca gtctgctaag aatgcatgga 300
aaaccttgaa aaggtacaca gacttatctt ctggaggtga atcgtctgac aataataatg 360
aaactgatat atctg 375

<210> 51110

<211> 243

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-B10

<400> 51110

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ggtagtagtact tagtagtactgaa ctttagtataa taacgcgcag ccgttttggg cggacacggt 120
tctctaaagg cgaagactct gaagtgggagc aacactcggc ccagcgggagc aacatgccgg 180
ctccggtctc gcgcacctgc tgacaccttt cgaagcactt tcacgtgtga accgaagtcg 240
tct 243

<210> 51111

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-B11

<400> 51111

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agtaccccca ccagcatgag gccccctctt actccacgac cgccaccgtc ttctggccgt 120
acgcgactcg ccgcagaaag agagccgagg acggcatcga cctctcgctg gcgtcagata 180

tggatctcga cgccgacgcg cagcgcgccg cagataagct gaaagcagtg tcagaggaac 240
 ttggacatga gatccgggtt ttttcaagtg agaactttgc tctacaaccg agcaagctgc 300
 ctagtgcaga tcatgaggaa ggtgacgact tttatgagct tcagcctgct gattactaca 360
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<210> 51112
 <211> 427
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-019-Q1-K1-B2

<400> 51112

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 gttgcactcc aggctattga attctggagt tccatatgcg atgaggaaat tgatattctg 240
 gatgagtaca gcagtgaatt tacagctgat tccgatgttc cttgctacta ctttatcaag 300
 caggctcttc ctgccttggg gcctatgttg ttggaaactc tcctcaagca agaggaagac 360
 caagacttgg atgaagggtgc ttggaatctt gcaatggctg gnggaacttg tttgggcctg 420
 gtggcaa 427

<210> 51113
 <211> 431
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-B3

<400> 51113

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 ccaactgcggc cctcttcctc taacgcggctc tctgctggt cctggtgctg gtggcggttt 180
 ccacgctggc ccaggcgcag ccgacgccgc cgccgccgcc cagctcctcg tgccccctca 240
 atggtccgt gccgctatcc aacatcacag aggtccttgg actgctcgcg gagctggacc 300

tgaacactgc cgcccagtcg ctctgcaccg ctgtggaagg tgtcacttcc ctcgcccgcc 360
 tcctcctcgg ctccatcggg ctcatgctgc ccttcgactt cgagtgcacc agcacctagg 420
 cgcatgcatg c 431

<210> 51114
 <211> 420
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-B4

<400> 51114

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 ttgagatatg ggtcaagtca ccttctgtaa aacagtacaa gcgttacgta ctgatactcg 180
 tgtccaagaa cataaacttt tggagcgata cctagaacaa ccctctccat tttagccttg 240
 tttttggtaa gagccttggg caaagaagtg ttgtcaggga gttggacttg ttttgtggaa 300
 tgtttccatt aagagccaac cccacaccga ggattgcaaa cacagaagtt tgtattagt 360
 cagaagtttc actctgcgat attttttccc catgttttcc tagtcgacgc aaaatgattt 420

<210> 51115
 <211> 333
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-B6

<400> 51115

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 ataacatgca tgtacagcta gcgaccatgt ctgaatgaca tcttcgttgc tagctgatgc 180
 tgctactgct acctgtcact ttggtgttct aaaagactct gatgaagcgt tctgaatgtc 240
 tgcatttcaa gtttgcctatg tgacgttaaa aaaaaagccg tatcttagat cttgatgaag 300
 ccaaggcatc tatagacaac gctactgatg cta 333

<210> 51116
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-B8

<400> 51116

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agaagatggg tatccttgag aggatcaagg agattgaggg cgagatggct cggactcaga 180
aaaataaagc aacagaatat catcttggaac aactgaaggc aaaactagca aagttgagga 240
cacaactatt agagcctcca aagggttcca gcggaggtgg agatgggttt gaagtcacaa 300
agtttgggca tggtcgtgtt gcacttattg gatttcccag tggtggaaag tcaactcttt 360
taacgatgtt gactgggaca cattctgaag ctgcatcata tgagttcaca acgcttactt 420
gcattcctg 429

<210> 51117
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-C11

<400> 51117

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ctactcttgg gtttgcctct tgcccttgct attctagga caacatcggc tgctggttgt 120
gtacaagacg cggaagacat gaaacgagag tgcaagcagt ttgagctatt ccagcgaac 180
ccaaagttgc caccgtcggc agcatgttgt gctgtgtgga agagggcaga tgttccatgc 240
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gtcgccaact attgtaagag gccgtttcaa cctggctaca agtgcgaggag ttatacagtt 360
cctcttagta tgtaaaagga gtggttggga catgtgtgtac tctcttctag aactttaatt 420
tgagatttgt aacat 435

<210> 51118
<211> 304

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-019-Q1-K1-C12

 <400> 51118

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 tcttgaggac tcctacaatc agcttaggat gcgctctcct caggacttga agggtagact 180
 cactgttcat tttcaaggag aagaaggaat tgatgctggt gggctgacaa ggaatggta 240
 ccaatcgctt tcacgagtca tttttgacaa gagtgccctt ctatttacac cagtcgggaa 300
 tgat 304

<210> 51119
 <211> 392
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-019-Q1-K1-C3

 <400> 51119

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 gaaggggaag aaggccaaga ccgatgccga cggcggcgag gagaacgagc aaatcgacgg 120
 cgcccttgct ttctccatcg agaagctcca ggagattcag gacgagctcg agaagggttaa 180
 tgaggaagca agtgacaagg ttatggaggt ggagcagaaa tacagtgaga ttcgcagacc 240
 tgtctatctc aagaggggtg acattatcaa gaccatcccg gacttttggc tcacagcgtt 300
 tttgagccat cctctactaa gtgagcttct gactgaagag gatcagaaga tattcaagta 360
 ottggactcc attgatgtcg atgattctga tg 392

<210> 51120
 <211> 414
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-019-Q1-K1-A4

 <400> 51120

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ggctgcttcc agtccttgat cgcaaccctt acctttctga aggcacaaga caggctgcag 120
 caacaaccgc ttccctcgca aagaagtatg gagcagatat tactgtagtt gttattgacg 180
 ataaacccaaa ggagtctgtc ccagagcatg atactcaaat gtcaagcatt agatggcatc 240
 tctcagaagg cggattttcg gagtttagat tgatggagcg tcttggggaa gggcagaaac 300
 caacagttat catcggggaa gttgctgatg agtgggactt agacctggtt gtgctaagca 360
 tggaggcaat ccactccaag catgtcgatg ggaatttgct cgctgaattc atcc 414

<210> 51121

<211> 437

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-018-Q1-K1-G7

<400> 51121

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 aattcacgtc ttaacactat cggctaaact tccgtgagtt ctgctacgaa cttattaaag 180
 gccggagatg aactacacgt cttcataag gtagagaaaag acggaacttc cgagctccca 240
 gtctgctgcg taaagggtgcc ggaggacgta cctaataagt ccgagggacc cctacgcaat 300
 aaggttgaag gagtaacgca ctcccctttc tagacctcct cgttatagaa ggtaactgaa 360
 gtcgtcaaag tcgtcaagaa agtgttcgat gtccctcatg tctcttgctc ttccgaactg 420
 atcggaactg ctgcggc 437

<210> 51122

<211> 326

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-018-Q1-K1-G8

<400> 51122

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 atagtgaata taccacgact gtggtcggca gttgcgtcta atgcgctact acattcggaa 120

aggactcggg caccatcctc gacgaggttc cgagtccgaa cgagtccgta aagcgtgtcg 180
taacttcagg cattatcaca cacagtcgac gaactgggcc tcaactcggta tccggacggg 240
cgtcgaaaca tacctgtcgc acttaagaga ctcatcgcga agaggtcgcg acgacaatac 300
gagagtcaac tgcgtagta actccg 326

<210> 51123
<211> 408
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-018-Q1-K1-H1
<400> 51123

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aagtacgact cgcactggga agacgacgaa ttagtcctaa aactaataga cttgaaggac 180
cgggtgaccga agtcctagag gtgaagcccc taataagacc ccattagtat aagaagcctc 240
ggggcggtgcg actcatgcga gaagtcactc ggcacaacga atttatagtt actaaacgtc 300
gatttattaa agttaaagtt aaagttagca ctggaagccg ccaatactct aagggtgctaa 360
accgtcgacg aaacgtacgt atgttaaaaa aagaaattat taaagtag 408

<210> 51124
<211> 248
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-018-Q1-K1-H10
<400> 51124

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gtgcgtgtac gccaaagacc ccaagtttgc aaaatacatc aacaacccca acaccgcca 120
aacctttacc tcgtgcggca tagccatccc caaatgctaa gcaagcgtc tgcgtcgtcg 180
cttcgcttgc tcttgcctt gtgtgtaaca tatccagctt atgaataaat tatgtggatc 240
agttaatt 248

<210> 51125

<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-018-Q1-K1-H11

<400> 51125

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ggacgtggac atcacctggg gcgacggccg cggcaagatc ctcgacaacg gccagctcct 120
gacgctgtcc atggacaggt cctccggctc gggcttccag tccaaggccc agtacctcta 180
cggccgcttc gacatgcagc tcaagctcgt cccggggggac tccgccggca ccgtcgccac 240
cttctatctt tcgtcgcagg gttcgcagca cgacgagatc gacttcgagt tcctggggaa 300
cgcgagcggg gagccgtaca cgtgacacac gaacgtgtac agccagggga agggcgggag 360
ggagcagcag ttccggatgt ggttcgaccc caccggggcc ttccacgcct actccgtgct 420

<210> 51126
<211> 384
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-018-Q1-K1-H12

<400> 51126

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catcggccag gacgatgacg gcgacgaagg gatcagtggc agctgcagcg tcgcctgctc 120
taattgagac cgactagaac aaacaagagt tggctagccc gcccgctcac caaatcacgg 180
gcgccgtgtc ctaattgccg tagcaccctc tcagtctcag tccctagtag caatcaatag 240
agagaagaag cttgagcttc aacaaaccga caacaacatc ataaaaaggc taagcgcttt 300
gctgccatgt tatgttggtg ctggagctcg tcgcgaatcc agagtgttaa ttagcgagag 360
aatcaatcag atcccttcca gcgc 384

<210> 51127
<211> 92
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-018-Q1-K1-H3

<400> 51127

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aaaaaaaaaa aaaaagaaaa aaaaaaggga aa 92

<210> 51128

<211> 414

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-018-Q1-K1-H4

<400> 51128

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acttagaagg agagtatttc ttatccggcg tctgtctcca cgggcggcac gtagactccc 120

gcgaaaattd ccatcggtaa gattactatc tccgaggcgg agctcctaga cattaccgat 180

aacgctaagg ttaagactta ggataaggag ggtactttgt tggattagta gtgctccact 240

cccgttggtg agtagtcgga ggacggatgt atttccgtgg accataatac ctagaaggag 300

agtatttcnt attcggcgctc gtgttctaag ggaagaacgt agactcctgc gaaaataccg 360

atcggttaaga ttactattcc ggaggccgag agtcctgata ttaccgacaa cgcg 414

<210> 51129

<211> 437

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-018-Q1-K1-H5

<400> 51129

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cacggcactg cgaagggcga tcattcgacg actaagggtc gtcgcgcggg cttaaagaag 120

agggcggcga tttcttggtg gctttcttcg aagtagatcc tttggtcggt gtcggaggag 180

actaagtcta agcctactga tatactgctt aaaccgggt atggctgccc ttagatcatt 240

gacgagaagt agaggcctcc cggttaagtct aagggtgcaag gcgtcgtggc gtagtgataa 300

gctttaccct ctaaaactac taaatcgca catccccgcc cgcaattccg tcgcatcaag 360

ccccgcagtt ggacggcccc ggagtacggc ttggctcctc acggaccgcc ttacgtcctc 420
gaaatcgtag gctcacg 437

<210> 51130
<211> 433
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-018-Q1-K1-H6

<400> 51130

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atgttccaca gaactccgct ccaccagcac tagaggcttc gttgaggtag tcgccgacgt 180
ggcatacgta acctcgaagg attctgcttg taaggctact aacgaaatat acgagtcgaa 240
gtagcccttt atttcctgcg cggaagcagg taacgtagtc cccgagctac cggacagAAC 300
gagggacgaa agtaagaaaa acataccaaa gtcagccgat acggaacgta gtcattccgat 360
agcagaccct cctaggaagt ccttttagga cgccgagagg ggcggaaact taaattatct 420
ccaccccgac aga 433

<210> 51131
<211> 476
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-018-Q1-K1-H7

<400> 51131

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cgcacgtgag tcgtatctta ccccccgtag cgcaaggaaa gcgaggtgaa cggccggacc 120
ctgagaccct gatagaataa cggcgaagtc ggaacggcca tctaatacga tcattcccgc 180
gatagtaagg gcgacacgct aactcagac aatccataag tctgctgtcg acgtctataa 240
acccgggaag ggtaccgagt ccttatcagt ctctccggc acggtaggaa cgaactcgtc 300
taatacacc tcagggtccg actcatccaa agtacctata tgagaaagaa attagtaaag 360

ttactaggac cgaacgcgtc ccctccgacg gcggcgcac taaaaccccg agaaagtcgc 420
 agccttgccct aagcagggtta aagagacacg cccaagctcc aaccagtaat catatc 476

<210> 51132
 <211> 421
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-018-Q1-K1-H9

<400> 51132

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 tcttcaggga cccgttcagg aaggggcaga acatactggt catgtgcgac tgctacgagc 120
 cgaacgggga gccgatcccg agcaacaagc ggcacggggc cgcaagatc tttagccacc 180
 ctgacgtcaa ggctgaagaa ccatgggttcg ggattgagca ggagtacacc cttctccaga 240
 aggacaccaa gtggcctctc ggttggccgc tgggcggcta ccctggccct cagggacctt 300
 actactgcgc cgtcggagcg gacaagtcct acgggcggga catcgtggac gcgcactaca 360
 aggcctgcct ctacgccggc atcgacatca gtggcatcaa cggggagggtc atgccggggc 420
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<210> 51133
 <211> 400
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-019-Q1-K1-A1

<400> 51133

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 aggtgatgat gtctgtctgt cttccactgc caaggatgct accgatgatt tcgaagatgt 180
 ggggcacagc accaccgcc gtgcaatgat ggacgagtac ctcgtcggtg agattgatgc 240
 ggccacgata ccagtaagg tgaagtacac gcccnccaag cagccgcact acaaccagga 300
 taagaccccc gaggctcgta tcaagatcct ncagtttttt gtcccccttg ccatacttgg 360

ccctgctggt gctgtaagga tctacaccaa gtcggaatct

400

<210> 51134

<211> 429

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-019-Q1-K1-A11

<400> 51134

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ccgtcgggtc cttggctggc gacgagcaac taccaggcga ccagtggtg tgttcgggaa 120

cgtttccgcy ggcggggcggc ggccccccagt ggcgaagatg atctgactac cgacgtacgc 180

agcacgaggc gttcgttgcc atctttcttct cctttgagta tatgatacta gcaacatcca 240

cggatatcaac attcgtgaag tatatattct atgttagtga catgctaata gaaggatcaat 300

gggagaaaaa ggcagtgtat acatttttact tggagctcat aagtgcactt gtgcacttgt 360

cattatacat gctcttcttc atagttattc tncatgaacta tggatgatcg cgaccgtgat 420

cttccatgt 429

<210> 51135

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-A12

<400> 51135

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ccccctatgt tctaggtgcc agggctcttc ttatcttctg ctggctacta tcaactacca 120

ttctacccat tgttttggtc tgtaactttt cctctctctt acttcttctc ctacgtttct 180

aatattatct tactacctac ttactcatca ctaatcttct ttttccatct tattctcctt 240

ttattatatt atactatcaa catccactgt atcaacattc tttaaatata tattctatgt 300

tatttacatg ctaatgtaat gtcaatttta aaaaaattct ttatatacat tttacttt 358

<210> 51136

<211> 353

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-019-Q1-K1-A2

 <400> 51136

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 gagccagtgc gcctgctgta gacatgacct tcaatgacac gctcaactga gccgtctact 120
 ggcatctatt ctacaagcac gtgtccaatc tgatcatcaa ggaccaggac gacatagatg 180
 tggataacct ctacttcgtc gataagctca ttgcctatgc ggacactaag cacatgcact 240
 tgaagagccg cgatatctac aatactacat gggcaccatg catcactaaa ttcacatgac 300
 acgaggctgc agattaccgg atctacatga tctacaatga ttgcaaggag gac 353

<210> 51137
 <211> 437
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-018-Q1-K1-G6

 <400> 51137

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 taacggatgat gtggtgttat acttcgtctt gtgttgctgt tctgcgctt tctctgtgt 120
 ctgaggtcgc ggagggttct gaagaggggt tttgtgggtg ttggtcgtcg gcttcgtcgg 180
 atgattcggg tgcgtggctg ctgtatctgg ttcctcctgg tctgtcttag gtgtgtgggc 240
 ctgactctga accttgttct gttgatgatt ttaagtctct gtcgtattgt catgggttagc 300
 attctcatga cggttctgcg tcgcctgttt gtcttatttt atgccccggc ggactagcgg 360
 attagaatgt agcttccgaa cccaccgacg tcgggtccga cagacttcg gtggtagaac 420
 ttctcgttct cgactcc 437

<210> 51138
 <211> 287
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-018-Q1-K1-F1

<400> 51138

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taattaagtt ngttgtaggg tacaggggtg gctgaagaat gatgagaact tngngaaggg 120

agggtggagg agaaggaaga agaggggatg aggggtgaact tggtggagag aaggggagtg 180

anggtgaggt cgggtggcgg tgtgaggggt cctcttgctg tggttactgg tgggtggtgcg 240

cttcggcgct aaggggtgcc ttggggggac tggttcagag cctgcgt 287

<210> 51139

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-018-Q1-K1-F10

<400> 51139

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cagcaggatg ccctccgtgc ctttcaactt ctacagaaga ctgcctgccca ggtccgatat 120

gctcctttga gatcacagta ttcggcgtga gagaatcggg tgcaagtctt tacttattta 180

tgtctgttct gctcggatcc ttctgattag tatcagatca gatgtgaata taccagatga 240

gttcgtatat tagacgtcat ttagtgctcc atgaataagg cggttggtta atggttcata 300

tccttctgag tctctgggat agtgagggga ggctcttggg tgcagaaatg taatgttaac 360

tacgggctat tagcatagaa ctaatggcag gaacaatatt atccctcgtg tattat 416

<210> 51140

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-018-Q1-K1-F11

<400> 51140

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gtagggcccg gtgtaccctc agcccggccg aggttgccag ggccttcggc ttccccacca 120

cctccgcaa cgcgggcggc ggtggagacg gccccgctgt gccgacgctc catcttaacc 180

gtttccggcc gtcgtacaat gtgttgctg gggcgtaact gcctgtgggc gccatgcggg 240

cactaccagg ttgcgcccac ggaggaggag gttcggatgg ggagggggccg gtgatccagt 300
 gcatgaagtg ggggctggtg cccagcttca cgggcaaggc cgagaaaccc gactatttca 360
 ggatgttcaa tgccagatca gagtccgtaa aagaaa 396

<210> 51141
 <211> 194
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-018-Q1-K1-F12

<400> 51141

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 accgtgaatt tttggaggtg gagactccga tgatgaacat gattgcttgt ggagcaactt 120
 caaggcctct tgttacacat tacaatgaat ttaacattcg gctttttatg cgcattgctc 180
 cttaattata tctt 194

<210> 51142
 <211> 334
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-018-Q1-K1-F2

<400> 51142

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 tgaagaagta tatggtgaag gagactgttg tgaagactga tgtggtgatg atgaattggg 180
 gtggtggtaa ggttgggtag gtggattggt cggggtagga taagggtggg tacgtgaagt 240
 cgggtgcgttt gtctcgttgt attttggtgt ttgatactaa gcttacgtag acttattatg 300
 aggtgtgtta ttttaagtct tttcctgagt tgga 334

<210> 51143
 <211> 385
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-018-Q1-K1-F3

<400> 51143

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actaagaccg caggggcggt cgcggtcctt acttctgttc cgtcttcgc ccttgccac 120

gcggaggtgg aaactcgtgt aaggttcaac ttccaccact tcggtgtacg taggagtaac 180

aaggatcgcg taggtctgcg tacctagtaa aattctggta ttagtgggca tcgtaagggt 240

agcgcttttt cccctaaact acgtcaccgc attcccgaac gctttacgga agatgaggta 300

gaggagggac ggtatcagct gcgagttgtt actcgtaga tcaaacctaa agcactcgag 360

cgccacgta accgattcgc ggaac 385

<210> 51144

<211> 282

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-018-Q1-K1-F4

<400> 51144

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ttggtggttc tggacgggtg aggcggcggt gaggactgag gctactgctt ggagtgtgga 120

gtcgaaagtg aaggttgata tggaggacga tgatccttac agtactctct ttcaattcgt 180

tagtgtggct gcctctcgcg gccacccta gactccgggc gtataccgcg tggtgacgca 240

tacgctgca ataccagctg cctcctacca cctctcgaa aa 282

<210> 51145

<211> 451

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-018-Q1-K1-F7

<400> 51145

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tactgcggtg gttagtaatg tgctttatgc ttaggttggt gcgtgctcgtg gtgtttgtta 240
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 ttctagtgtg aggtggtttc ctgttgctgc tgattcgggt aggtcttctg ttgctagtgc 360
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 tgttactgtg agttgtaatg tgtgttcggg g 451

<210> 51146
 <211> 436
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-018-Q1-K1-F8

<400> 51146

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 tagccattcc cggcgtagcc accggtataa aatactaggg tataataatc ataataatcc 180
 gcgtcagtaa attcgcgtcgc tcattctctag taatagtagc cctccttacc taattaatca 240
 gtcgtaccga atctcgtcct ccaccgtaa taataataat cattacctag ttagtcactc 300
 gtcgttcatt tttagtaacc ctccttacct aattaatcga tagtaccgaa tctcttcgtc 360
 caccatagt agtaataatc atcattacct agttagtcag tcggcgcgag ttcgtcatt 420
 cctccgatat aattat 436

<210> 51147
 <211> 435
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-018-Q1-K1-F9

<400> 51147

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 tggactaaag catgcctcag ggaatttctg cattatcatg gacgcggacc tatctcacca 180
 tccaaaatac ttgccaaagt ttattaggaa gcaaaaggaa actggagctg acattgtaac 240

tggcacacgt tatgttaaga atggtggtgt ccatggttgg aatctcatgc gcaagctgac 300
tagcagaggt gcaaattgttc ttgcacaaac gttactgcag cctggagctt cagatttaac 360
cggatcattt aggctatata agcgagatgt cctggaagac ttaatctcct catgtgtcag 420
caagggtac gtgtt 435

<210> 51148
<211> 359
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-018-Q1-K1-G1

<400> 51148

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ccagcgagtg taataaacgt gcctaccacc ttatagagtc tatccgtctt cagcgtagc 180
accttatagc cttctttatt agccatccta acgggtcctg aatacttagt tgcgtaagtt 240
cataggtcat aatcagtgtc cgtggtagt gttccataat aattaaccgt ttaaccgtaa 300
taataacttc cgttatactc aatttcataa attaccgtaa tgtaataata ataataata 359

<210> 51149
<211> 428
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-018-Q1-K1-G10

<400> 51149

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cnagcatagc ttctctgctt ctctctcccc tctctctctc tcgtccactc ctttgtccaa 120
agcttcgaga tggctcagca gcagaagggtg gtggtcaggg ttccaaccat gacagatgac 180
aagatcaagc agaaggccat cgaagctgtt gcggacattt acggtattga ctccatagca 240
gcggatctga aagagaacaa gatgaccatc ataggcgaga tggatgcagt agcgattgcc 300
aagaagttaa agaagattgg aaagattgac attgtgtctg ttggacctgc aaaagaagaa 360

aagaaggaag aaaagaaaga agagaaaaaa gaggaaaaga aagaagagaa gaaagaggag 420
aagaaaga 428

<210> 51150
<211> 348
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-018-Q1-K1-G11

<400> 51150

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ctttccccca cttcacccgc ctcggcgcca tggctaagct cgcgctggcg ctctctctcc 120
tgctggccgt ggcggcgctcc gcgtcggcca gcagcgggag ccacctggat ctcgacctgg 180
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ccgaagagtc ggatgaggag ggccttgacc tggctggatc ccaccgncgc gcgctctacg 300
gcggcgggta catcagctac ggcgcgctgc ggcgggacaa cgtgccct 348

<210> 51151
<211> 375
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-018-Q1-K1-G12

<400> 51151

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agccgtacga ctccgggttc ctcaaggtct ccgatgtcca caccatctac tacgagcagt 180
ccgggaaccc gcagggccat gcggcggtgt ttctccacgg cgggtcccga gccggcacgt 240
cgcccgga caggagggttc ttgacccgc agttctacag gatcggttctg ttgaccaga 300
ggggtgcang cagaagcact ccccatgctt gtttagagca gaacactact tgggacttgg 360
tagctgacat tgaga 375

<210> 51152

<211> 132
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-018-Q1-K1-G3

 <400> 51152

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 aaaaaaagaa aa 132

<210> 51153
 <211> 374
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-018-Q1-K1-G4

 <400> 51153

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 gcccgctttt acacctagcg ctgcgagaca agagatacga aacgctttta gccctccccg 180
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 aacttccgcg tagccgggtt gcggaacata gtacacgtaa gcgcccgaacc gcgtaatacc 300
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<210> 51154
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 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-018-Q1-K1-G5

 <400> 51154

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 gtagcctcgc agaaacggtc gacggcgagg atacttagtt ctccgctcgt gataacggtg 180

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 ccggtgacga ggtatagctt aagagaggca cctctatgtc taagcatttg accgagtatg 360
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<210> 51155
 <211> 127
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-018-Q1-K1-E8

<400> 51155

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 tccggac 127

<210> 51156
 <211> 424
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-018-Q1-K1-D12

<400> 51156

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 tgaacttata aacaaaagtt ggttttacta atttattaaa attggcaagt ttgtgatgct 180
 aaaatttcac attgaaggcc aaaacattgc cactcgttga gtcattgttc aaaagaacta 240
 cagggaccat catctgatgt aagcttgtga ttttgcggg taaatccctta accgttgtca 300
 ggtggatata tctttaggac aactttgtgg ggaccacag gtctatattt ggctgatacc 360
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 gctg 424

<210> 51157

<211> 362
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-018-Q1-K1-D3

 <400> 51157

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 agaaggggttc cgagtttctt gagcctgagg atcttgccgt ttaggtccct cccgactcgg 180
 agaatgggaa ttaggagtct aacagtgatt ctaaggattc gcataactaat aacgtcactt 240
 agacggacgc cattgggagt aggaaggtcg ccgctactta tgctttacat tgntcgtgta 300
 aggttcctag gaagacttac gctagatcct gtaaggaatt cggagaagaa acctaattgt 360
 aa 362

<210> 51158
 <211> 414
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-018-Q1-K1-D4

 <400> 51158

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 gcttgagaat ccttttgagc caaagttcga ggaggccgtc gggacgacaa aggatcccga 180
 cgaattcgga atctccgtat taatcggctc ccccgccgga ggcattgaagc atacggcgac 240
 ttaaggcgaa ttcggagccg ctacttgagg aaagaaggca tagcggggaa tagaccctc 300
 aacagaagaa acgtcccgac gttccccct gccgtccacg ccaaccccca tttaaaaata 360
 aatctaggct acactcgtag catcacacca ccacaaaac acgcaacacg gact 414

<210> 51159
 <211> 344
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations

<223> Clone ID: LIB3079-018-Q1-K1-D5

<400> 51159

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tcttcgnttg ttattgttct gtctgatgtt ttctcctgcg gttctgtcct agattcatga 180
gttctaactc gtagtcgggc aaccggctgc acagctttct actactggaa cggcggggct 240
atcactccct ttatattcaa cgcggaacttg aaggtagaga acttcaacga gacggccata 300
gttggcgcgt ccctaagttc ctagaaccct tcatgtaagc gttc 344

<210> 51160

<211> 383

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-018-Q1-K1-D6

<400> 51160

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ccatttcttc tottaatttt ctcttgactc tcacaaaaga tttgaaccct gaaccttttt 180
ctgaatttgt gacttgtgtc ccttcctttg tttaccctgg ctctcgacct ggtgtggacc 240
tgtcgtgtgg gagtttttga ggccgtgcgt gcgacctgga cgggtggagtt gngtctgag 300
ggtagttagt tggcggactc gcttaagtat tttctcggtg ctgcttttat gtcttagaac 360
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<210> 51161

<211> 430

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-018-Q1-K1-D7

<400> 51161

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 attagctacg ttaccgggca ttacgaattt acgtacgtag catcgtacga cgtaaataggg 240
 gtccgttagt ccgacgggtg gcttgctttc gacgtcgtag taatcgccgg ttccattgtc 300
 ctagatgacg ttagcgacga cgttatagac gacgatgttc aatacgacgc tattaccgac 360
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<210> 51162
 <211> 406
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-018-Q1-K1-D9

<400> 51162

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 cacggcccat gcatgagcaa caaggactgt gccaaactcg gcgttcaaca taacctcggt 180
 gtcagcgggt attgcagggg caagatccca ttcaacaaag aatgcatgtg tacatttgaa 240
 tgcccatgag tcaaaagcca ctatatctga cgggcgcaac ttgttatata tctaaggatg 300
 ggatgtcctt tggcatgtac tacattttga aagtgtccaa gtgagacttt atacatatat 360
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<210> 51163
 <211> 345
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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<400> 51163

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 tggcgacgtc gtctcgtcgg gtgcccttgc tgctgctgtg cctgggcgtg ctggtgtcct 180

gctccttcgc ggcgggcagc ttggaccagg agctggacat cacgtggggc gacgggcggg 240
gcaaggctct tgacaacggg cggctgctga cgctgtcgct ggaccgcacg tncggctccg 300
ggttcagtc ccggcacgag tacctgttcg gcaagatcga catgc 345

<210> 51164
<211> 412
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-018-Q1-K1-E11
<400> 51164

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agcaaagagt ggctatccat atcgactgaa ctatgtggag gtacacatat caciaacaca 240
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ataacagccg tgactgctgg atgtgccacc caggctatgg agttggcgtc atctatcgat 360
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<210> 51165
<211> 402
<212> DNA
<213> Zea mays
<223> unsure at all n locations
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cgacgtctcc cgcctctgca gccggatccg gtgaccgcc gcgcaaggat ggaggatctg 300
gttgcgcgct ctgacttaat tagaggagtt gttaggatcc aattntttgt gtgttcgttc 360

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<210> 51166
<211> 100
<212> DNA
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<223> Clone ID: LIB3079-018-Q1-K1-E2

<400> 51166

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<210> 51167
<211> 363
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-018-Q1-K1-E3

<400> 51167

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cnnttngtgt aggngtgggn ggtaatgtgg aagagtcattg atttgtngga ggaggatgtt 120

aattgtttta attagtatta tgatgatggg ttttaagnntt ggtctgagta tnatgntatt 180

gaggtttatg tttcttctga tactcctgtt gataaggatg atgttcgact tttactggac 240

tcgctgctgg gttatctgaa gtctggacgt atgaacgaac gaataaataa caacaatgaa 300

cgggacgcgt acgcacactg ctacgtgtac gccttatgat gagatgggag cacattatgg 360

cgc 363

<210> 51168
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-018-Q1-K1-E4

<400> 51168

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gcggctaccg ctatgtccag tgaacagtgc cggctcgacgg tcataggttc tgagagagag 180
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 ccaaccggtc gcgaaacaag gagagaccga gagggataga aagaggacga ccgcaagctt 360
 agtgactcac tacacact 378

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 <211> 420
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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<400> 51169

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 attgcagttt aagttttaac ggtaacggca ataacgacgt cgtcgtcgac gctgacgtcg 360
 acgtcgtcgt ttgtagcggc ccttttatcg gaagtaagct atttcgagtg tcggtggggtt 420

<210> 51170
 <211> 383
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-018-Q1-K1-E6

<400> 51170

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 aggcggtcat caattaatac taagaaccaa ccacaagact accgccggtc gtaagggacg 240

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 <211> 418
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-018-Q1-K1-D10
 <400> 51171

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 <211> 417
 <212> DNA
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<210> 51173

<211> 61

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-018-Q1-K1-B3

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<210> 51174

<211> 399

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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tccatcgcgt atgcgttccg acaccgtaaa aaaacaaaaac aaacaataac attcaaacaa 240

agggcgggcca ccgaagtctt cttacctctt ccgtctttaa ataaaccttt tccgtccnta 300

aacaaacttc aacgcaaagc cccttaacac cgcacgggaa cactcaccac ccatagactt 360

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<210> 51175

<211> 64

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-018-Q1-K1-B5

<400> 51175

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64

<210> 51176
<211> 373
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 51176

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<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-018-Q1-K1-B7

<400> 51177

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<211> 449

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
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 <400> 51178

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<210> 51179
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 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-018-Q1-K1-B9
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<210> 51180
 <211> 280
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-018-Q1-K1-C1

<400> 51180

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<210> 51181

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-018-Q1-K1-C11

<400> 51181

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gacatggatg tatattcact tgcagttaaa gctgaaacaa cattgtctgt tgatcaccca  360
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<211> 426

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<400> 51183

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<400> 51184

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atcatccagg accccggcca gagaccaacg acatcgcccg gcccctcgca taaccgaccg 180
aaagcacaca tcc 193

<210> 51185
<211> 372
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taagaccata aaactcggga agtgctccta cagatccggt gggtcgtgag cgttacacaa 240
tcgtctaaag atcaaaaagt cataagaaag tacaacgtca ggagacgggt ttctagaacg 300
gctagtcggt gggagtcgtc gttgtcgttg ttacggagta gtaaaccta ataatacaag 360
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<210> 51186
<211> 386
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-018-Q1-K1-C5

<400> 51186

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<211> 395
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<213> Zea mays

<223> unsure at all n locations
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<400> 51187

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attagaattt tagggcgct tcggcttcta atactggtgg tgcgatggcc ggttgtgctg 180
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<210> 51188
<211> 67
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-018-Q1-K1-C7

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cgcat 67

<210> 51189
<211> 341
<212> DNA
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<223> Clone ID: LIB3079-018-Q1-K1-B2

<400> 51189

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cggaacaaaa aaaaaaaaaa aagcaaaaaa aaaaaaaaaa caaaaaaaaa aaaaaaaagg 180
ggtggttgcc tccgaggatt taacccacg attttcgta cgtaatgcta aagcctccta 240
ccagggtaat tcaacccaaa ctaacgcggt tgggccaat aatcctggaa tcggaaaaat 300
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 <211> 332
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 <223> unsure at all n locations
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 ccctaaattc aaccgggagg acccgctcga aaaccgctcg tcccgctccg agcgatcatc 240
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 <211> 424
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 <223> unsure at all n locations
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<400> 51191

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 accaagtgcc gccgcgcccc ctgctcccc ggcgccgcca actgccccgc cgccgccagc 180
 aacgtctgcc cgccctacgc cgtggtctac ggctccggct ccacagccgg tctgctcatc 240
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<210> 51192
 <211> 74

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-H7

<400> 51192

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<223> unsure at all n locations
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<400> 51193

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cggaagtca tgacagcgat atcggagagc agcagaccag atgtggagct tattctgggt 240

gggacaaccc ttcttaccac agacgacatg tttgagttga tggtgggagc gtcaagcttt 300

gcttaggctc aaccttcaact cttgagtcac gtgcgggact tggaaagaaa tcggagcata 360

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<223> Clone ID: LIB3079-017-Q1-K1-H9

<400> 51194

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tccacgcttg cccaagcgca ggcgacgccg gcggcggcgg ccaacttctt gtggcccttt 240

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<210> 51196
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 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-018-Q1-K1-A10
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 gtgcacggcg ctgagcatcc tcatggacgg cgcgatcccg ccggggcccg acgcgcagct 360
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 <212> DNA
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<400> 51197

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ataagaactt caatggggtc tgctgcatat gctcctgaga gagatgcaat ggtttggaaa 420
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<211> 390

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-018-Q1-K1-A12

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<211> 397

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-018-Q1-K1-A2

<400> 51199

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cggatgagac cggcgcgttg gcgggccttg ctaagacctg ccatctgttg cctctatgga 240

ttattgagat ggtcagagcg gctgttggcg cgtctggtac ttttcccgaa gtcttcagcc 300

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<210> 51200

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-018-Q1-K1-A3

<400> 51200

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cggacttatt tttaaagctg atgagaatag taagaaatcg aaaagggttca aggtccggaa 180

gtacatttaa ttaaccatat tggatatggtc gaaatagacg tgcgacgagc ctccgggatat 240

ggtcttgtat catggagggtt aaaaagagac tcgggacgtc tcgagggccg ttgtggagct 300

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tacgatgtct 370

<210> 51201

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-018-Q1-K1-A4

<400> 51201

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tcgaactcgg actcagtagt ctagtcagcg atgcgaatta tagacagcgt taatcgagaa 180
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 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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<210> 51203
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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-018-Q1-K1-A7

<400> 51203

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329

<210> 51204

<211> 268

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-018-Q1-K1-A9

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<211> 415

<212> DNA

<213> Zea mays

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tcccgtacgc ccgctggcc ggacgtaaca acgggtcggc catcgccct acgctgaact 180

cgaccatcct cgaccgacgt aacttcccc cggtcgcccgc tcagtgaacg tccctagaaa 240

ttattctcct cgcccagtc ccccggttag caagctaagt agcgtcccgc accccgcaaa 300

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<210> 51206

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-018-Q1-K1-B10

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<211> 391

<212> DNA

<213> Zea mays

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<210> 51208

<211> 261

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-H6

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<210> 51209
<211> 424
<212> DNA
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<223> Clone ID: LIB3079-018-Q1-K1-B12

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<211> 250
<212> DNA
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<223> Clone ID: LIB3079-017-Q1-K1-G10

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<210> 51211
<211> 389
<212> DNA
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<223> Clone ID: LIB3079-017-Q1-K1-G11

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cttcaagacc gtctagaaga tcatgggca 389

<210> 51212
<211> 420
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-017-Q1-K1-G12

<400> 51212

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tccagatgct gcaaaacact aacaggcact tggttggtga ttccgtggga aacctgtcac 120
tcaaggagct gaagcagctg gagagccgcc ttgagaaagg catctctaag atcagggcca 180
ggaagagtga gctgctggct gcggagatca gttacatggc caaaaggag actgagcttc 240
agaatgacca catgaccctc aggaccaaga ttgaggaggg agagcaacag ctgcagcatg 300
tgaccgtggc acggtcagtt gcagcagcag cagcagctgc caccaacttg gagctgaacc 360
cattcttaga gatggatacc aaatgcttct tcaactggcg ncccttcgca acgctggaca 420

<210> 51213
<211> 445
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-017-Q1-K1-G4

<400> 51213

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ggtggctcca ccactagcaa cccgtgcagc gagcccaccc cgaccactgc catgtcgagg 120
cgcggcgact ggggtctacga gaacaacggc gggacctgcg tggccatcgc cggcgccgat 180
tactgtgtcg tcgcgggcga caccgcctc tctgtcggat acagcatcct cacgcgcgac 240
cactctaaga tctgcgacct ggctgacaaa tgtgtactag catcttctgg ctttcagggt 300
gatattaaag ctctgcacaa gaacctagct gccagaggat tgctatacca acaccagcat 360
aacaaaagga tgagcttgcc tgccatggca cagctnctct tcaataccct gtactacaag 420
cgcttcttnc catattacgc cttca 445

<210> 51214

<211> 448

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-017-Q1-K1-G5

<400> 51214

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gcagatcttt gtgaagacct tcaccggcaa gactatcacc ctcgaggagg agtcttctga 120
caccattgac aatgtcaagg ctaagatcca ggacaaggag ggcattcctc ctgaccagca 180
gcggcttatc ttgcgcgcca agcagcttga ggacggagc acacttgctg actacaacat 240
ccagaaggag tcaaccctcc acttggtgct gcgccttaag ggaggcatgc agatctttgt 300
caagaccttg actggcaaga caatcaccct tgangtggag tctcagaca ccattgacaa 360
tgtcaaggca aaaatccaag acaaggatgg cattccacct gaccagcaac gtctcatctt 420
ttgccgcaag cagttggagg atgggagg 448

<210> 51215

<211> 318

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-G6

<400> 51215

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ggtggctcca ccactagcaa cccgtgcagc gagcccaccc cgaccactgc catgtcgagg 120

cgcggcgact ggggtctacga gaacaacggc gggacctgcg tggccatcgc cggcgccgat 180

tactgtgtcg tcgcggcgga cccccgcctc tctgtcggat acagcatcct cacgcgcgac 240

cactctaaga tctgcgacct ggctgacaaa tgtgtactag catcttcttg ctttcagggt 300

gatataaaag ctctgcac 318

<210> 51216

<211> 320

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-G7

<400> 51216

ggagcccccg ccggcgccgc tcttcgagcc cggggagctc aagtcttggc ccttctaccg 60

cgccggcatc gccgagttcg tcgccacctt cctcttcttc tacatctcca tcctcaccgt 120

catgggcgctc tccaagtcca cctccaagtg cgccaccgtc ggcatccagg gcatcgcttg 180

gtccttcggc ggcatgatct tcgccctcgt ctactgcacc gccggcatct ccggcgggca 240

catcaaccgg gcggtgacct tcgggctggc cctggcgagg aaagtgtccc tcaccagggc 300

ggtgttttac atcatcatgc 320

<210> 51217

<211> 140

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-G8

<400> 51217

cggcgtcacg tgcagcagga cgctgcgctc ctacttggtta gccgaatcca gcgtcgggtga 60

cccagacaga gcgacagacc gagtgcacatg gcctctcaca tcggctctca ccgaggccgt 120

ctactagggc ctctgatact

140

<210> 51218

<211> 121

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-G9

<400> 51218

catgtacgta catggaaagc tgatggcttc ctgactttta atttctgggc aggtcccaaa 60

attttcgccc tgagaatgag atattatata gataacatac atacatacca tattcgttgc 120

c 121

<210> 51219

<211> 231

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-H1

<400> 51219

aaaaaaaaagc caacgacggc accgatctta aagcccagaa gagctcaagt acaaaaacgg 60

gtggcaaaca aaaatgagaa gagataaaaa acaacttaat ataaatatac agtgtactcc 120

ttgaacggca ttcaagttta caaatccttc tttagctgag cttccgtctg cattcagggc 180

atctactggt acttaagtgg catgatcttc acacttttct actggacaaa c 231

<210> 51220

<211> 429

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-017-Q1-K1-H10

<400> 51220

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cccgaagcca gccttggtggc ccgcgtgcag gggatcacca gcgaaatcgg gaacgcgcac 120

caactgttcg tcgttggttt cgacaccgac agctgttcgt ctgcacctgc atatgcgtct 180

ctctgctgcc aggctcaagg gctccacgct cgtcaccaat ggcgtgataa cggccgggtc 240

tgacgagtgg gogatctacg gcggaaccgg ggtgtttgcc atggcgaggg gcgtcataag 300
 gagaaggtat ctgcgcgaca gggccggcgg gaacactgat gagctcaaca tggatgtctt 360
 ctgccggccg tttggctcac agtcagagct gcaagattag atgcangtgc aggggcaggg 420
 ctctagcgt 429

<210> 51221
 <211> 425
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-017-Q1-K1-H11

<400> 51221

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 cgtcggtctt acctctccgt ctacaactgg gtcgtcttct tcggatgggc gcaggtgctg 120
 tactacggcg tcttgacgct gcgtttgagc gggcacaagg ccgtctatgc cgccgtcgag 180
 aggccgctgc agttcgcgca gacagccgcc atcatggaga tcgttcatgg gtcgtagagg 240
 ttggtgaggt ctccggtctc tgcaactctt ccacagattg gatccaggtt gttccttacg 300
 tgggggtgtct tgtggagttt tcttgagacc cagtcacacc ttcttgttac taccctgggc 360
 ataagctggt ctatcactga gatcatcaga tactctntct ttggaacgaa ggaggcattt 420
 ggctt 425

<210> 51222
 <211> 320
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-H2

<400> 51222

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 gctgcacacc tacctgttag cctactccag agtcggggag ccagactgag cgacagaccg 120
 actgacatgg cctctcacat gggctctcac cgaggccctc tcctactgcc tccgatactg 180
 ccttcgtaac cgtgcctaca gcctgctgaa ggaactgac agcgaactgc acctacgcat 240

cgactatcac tacgaagcca attcgggtaca tgctctgcat gatcttattg atcagcttgt 300
 agtccacatt gctttctaca 320

<210> 51223
 <211> 331
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-F8

<400> 51223

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 aggtgaccaa cgctgctgcc aagaacaaat gatctatctg cctgggtgctg tgcttgcttg 120
 ttggttacct cgtggaagct taaaatatct cctcttgctg acatccttgc agttgtctcg 180
 tgaacaacta atctatcatg gcaatgtttg cctgggtcatg aagtattatt actttcgttg 240
 aaaccgtgat gctattaata cttaattttc atatcgaaca tcgaatgtaa ggcatacatg 300
 gttatgagtt ttgtactacc ccttgcattg t 331

<210> 51224
 <211> 310
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-H3

<400> 51224

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 cctggcttta tctacagaag aacagtgtgg ctaggcacaa cagacatgtc tcaggaagaa 120
 ttccgctcgt ttattgaaaa acttgcaggt gattatcatg gcgacacata tcatttaatt 180
 aacaagaact gcaatcactt cacagatgat gtctgccaga acttaactgg gaaacccatc 240
 ccttcctggg tgaataggct tgcaagagta gggtcagttt tcgattgcct tcttccagaa 300
 agcgtacaag 310

<210> 51225
 <211> 209
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-H5

<400> 51225

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aaggcacttg ccatagtggc ttaccaactc aatatgtcac aacatactgc tctgtacaca 120
tagctgccta caaccattcc acagtgccag gtactaatgt tacttctaga cccattcacc 180
tagattattc aaagatctca attgcaata 209

<210> 51226

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-E11

<400> 51226

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gagggggagaa gagaggaaat ggcggcgacc gagggcgtgc tcctggggat gggcaacccc 120
ctcctcgaca tctccgccgt cgtcgatgac gccttctctga caaagtatga catcaagctg 180
aacaatgcta ttctcgctga ggagaagcac ttgcctatgt atgacgagtt ggctagcaag 240
agcaatgttg aatatattgc cggaggagcc acccagaact ctatcagggt tgcccaatgg 300
atgcttcaaa ctctggtgac aacaagttac atgggatgca ttggaaagga caagtttggt 360
gaggaaatga agaaaaacgc tcaagctgca ggagttactg ctcattacta 410

<210> 51227

<211> 211

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-E2

<400> 51227

aaaaaaaaa aaaaaataaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaggg 60
aaaaaataaa aaaaaaaaaa ataaataaaa aataatacaa aaataatata tccaaatatt 120
tattaactat ctcaatgtct ctctgtcttc actctaagta ttaacttttt tattgcttct 180
tctaaattta tttttttgtc cttcttctaa a 211

<210> 51228
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-E3

<400> 51228

cccacgcgtc cggttttattg tatccatatg gccacgaaga attggccggt tgtgaagatg 60
ttgaccaggt tcgtggtgca atggagaagt acccaccata ccagtctata ttttccagga 120
tttcatatgg agaaagtcag atgttggata aggcatttta tgaggaggaa gtcaagaggc 180
tatgcttgtc ctttgagcag cagttccact acgctgtttt cttcgcttac atcaggctcc 240
gcgagcagga gatcaggaac ctgatgtgga tctctgaatg tgtcgctcag aaccagaat 300
cccgggtcca tgacagtgtc ggcttcataa tctgagaacc cccggcacta tatatggatg 360
tacaaaatgc ctgctttgat gattgcacaa tcgcttgaca attattaatc tggg 414

<210> 51229
<211> 233
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-E6

<400> 51229

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ttcttggatt cagcagactt aacgcatgta caagtctgag actccatttt tctatgagac 120
atctaataga ctatatgaca taactttaag actcagtatt ataaatgcag ttaatagaca 180
aaataaaatt cccccccat ccacatgctt gcgacaaaaa gggcgtctat tct 233

<210> 51230
<211> 330
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-E7

<400> 51230

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gctcgaaggg tttcaaggac ggtggctggt gtgacgaaag cgtggagcac aaagtgtgct 120
gctgctccca ttagaaatat aatagcgtat gttatgttga tgcataatata tatgcatcat 180
ccatctacct gtgtggtgca aaattctgaa taaaacctga ataaacctga ttgattaaaa 240
aaaattaatt ttatctctca agttgaaaat attattttta ttttttaatg tatatatattt 300
ttgtttctttt tttttgtgtt ttatatatttt 330

<210> 51231
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-E8

<400> 51231

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gctgcatgca tcgcttgga tgccctcccc tggccggatg tctccacgat gtgtcgaatc 120
aggctccccg atgaactccc acctagctgc tgctcttgcc cagcgtgaga agcaacagca 180
gacgatgaga agcctcagtt ctctgtgacct tgggccagct gcggcacgag cttcagctct 240
cggctcccct ctaagcacat catggtctaa gtggggatct ccttcagggg taccagactg 300
gggcgtacat ggtgaagaat tgggtaagct cgcgtcgtca ttcgcgttcg agctcatgtc 360
tcgctgcgat gaccctgatc tctcctgggt gcatacactg 400

<210> 51232
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-E9

<400> 51232

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catagtttca gtttggctcc ttgattacgt tgccctcttg accattttta ggtggagtgt 120
tcatatcagt gtcagccctt tgttggaatt taactattaa attcattcgt aattctcttg 180
tagtggtata atcaaagtgt taggttgcac gtaaccatag gtatcctacc aaattttgtg 240
tttgtggacg gatgttctgc ggggtttttt tttgtgtgtc gatgctattt ggcattgctt 300

atatcggttt cttgtgttga tgaacgccga tgattgtttc cacttagttg tctgatttac 360
aatagttaac acgacacgac atccattcta cacattatta ccttaaactg aagaatctga 420
tg 422

<210> 51233
<211> 287
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-017-Q1-K1-F1

<400> 51233

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agctgggtctc aagtcctaaag gaagcctttt cccgtgtttc ggctgatcgg agaaacaaac 120
ttatgaagag tggcctatct caatcatatt caacacacgg agacaaaaat attgtgaaat 180
tgagtaaact aacagaaacc aataggaggt ttgggtggagg gcggggccctt gaaccgnctg 240
ctatcaacca ggggtgcaatc acccagcttt cagaacagat ttcaaca 287

<210> 51234
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-F10

<400> 51234

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gaagcacata agatctacaa ggacacaaca catggttgat caactgacag aacttcagaa 120
aaaagaacaa atgttttgtg aagcaaataa gtgtcttcga agaagactgg aggagagcaa 180
ccaggttata tggcagcatg cgtgggagca aagcgagcgg cattctgaag tgcagccgca 240
gcagctcaat ggcaataact tcttccatcc cctcgatggg gctgggtgaac ccacccttca 300
gatagggtat ccttcagagg cactgactag ctcatgcatg accaccttcc tgcccccggtg 360
gttgccatga gatcgaaacta ctgcgcaatt ccgaattaat aagcatggcc gcatgc 416

<210> 51235
<211> 407

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-017-Q1-K1-F12

 <400> 51235

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 gcgctccgct ccgctcccct ccgctcccga acggtcgata tttgcatggc agcagcagct 120
 ggctccaagg ggcgggagat cgctggaagc ttcgtcagcc gcgtcctcgc cggcaaggcc 180
 gcctcgcgga ggagggccgt gcacgcctcg gcgtacgaca agaactgga ggaccaggtg 240
 cgcccgcgct tcgtgccgga cgatgtgatc ggcagcgccg ggagccccga caagtactgg 300
 agccccacc ccaagaccgg cgtcttcggc ccggcgggcg tggaccccaa gctggccgct 360
 ggtggcgcg cggacgccgg cgcggtatgt gcaggaggca cggtgct 407

<210> 51236
 <211> 396
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-017-Q1-K1-F2

 <400> 51236

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 gctgcatgca tcgcttgga tgcctcccc tggccggatg tctccacgat gtgtcgaatc 120
 aggctccccg atgaactccc acctagctgc tgctcttgcc cagcgtgaga agcaacagca 180
 gacgatgaga agcctcagtt ctcgtgacct tgggcccagt gcggcacgag cttcagctct 240
 cggctcccct ctaagcacat catggtctaa gtggtgatct ccttcagggg taccagattg 300
 gggcgtagat ggtgaagaat tgggtagctt cggcgttcat tcgcgttcga gcttaggtct 360
 ggcgcgatga ccctgatctc ttctgggtgc atacac 396

<210> 51237
 <211> 410
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-017-Q1-K1-E10

 <400> 51237

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ggtgcaccgc ttcgtggtgt acaagatcga cgagcggtcg cgcgccgtgc tgggtggacaa 180
ggtggggcggc cccggggaag ggtacgagga gctcgtggcc gcgctgcccg gcgacgactg 240
ccgctacgcc gtcttcgact tcgacttcgt caccgtcgac aactgccaga agagcaagat 300
cttcttcate gcctgggtcac cggcggcgtc gaggatcagg gccaagatcc tgtacgcgac 360
atcgaagcaa ggctgcggc ggctgctgga cggagtcac tacgaggtgc 410

<210> 51238
<211> 284
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-F4

<400> 51238

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ggctactact acgaccagag cgcgggctac ggcggttaca gctactcggc ggcgccgagg 120
acgacgccgt cccacctcct ggtgttcctg gccaccgtgg cgctgctggg cgccacgtcg 180
ctctactcgc gctacgagtc cgcggtggag agcctgggtg accaggtgcg gttcgccgtg 240
gtgctgtccc cgctgctgct cctgctcgcg gtccagtact gggc 284

<210> 51239
<211> 109
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-F5

<400> 51239

aaagaaacaa aaaaagaaca caaaaaataa aaaaacaaac aaatataaaa taaaaaaggg 60
gaaaatacta ctacaacgag aacgcaaac taaggcagct acagatact 109

<210> 51240
<211> 293
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-F6

<400> 51240

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ttcactacga ccggagatac ggctgcatcg gctacatcta ctctctctcc atccacgacg 120
acgccgcgca agctgccagc ctgcatggtc acctgactga tattactcgc taactgtgtc 180
tagcaagcct aatagtccac catggatagc ctttaagcacg aaacactgga cgacaccatg 240
ctggccgctg ttgatctcat gcttgggctg caatactgtg tgataccgga cga 293

<210> 51241

<211> 261

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-F7

<400> 51241

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aaaatataaa taaatagaat actattaata aaaaaaaatt tatatcgtat actatcttac 120
ttaaaggatc caattattat ttttgctttt tttctcactt ttaatatattt atatatattgc 180
acttaatttc aattttttgt tcttatttta acatttttct tacctggata accttttgct 240
ttatccattt aaatattttt t 261

<210> 51242

<211> 284

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-C3

<400> 51242

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tcctccagca tcctcgctag ggagaaggcg atggtgatca acctcgaatt catcagggcg 120
atagttactg ccgaggaggt gctcctgttg gaccctctca tgcacgaagt gctccctttc 180
gttgaccaat tgaggcagca cctgcctctg aggagccggg tgggtgagaa tgggtgagtgt 240
gcccctgatg gcaatgggga aaaacagaat ggctcgctta atga 284

<210> 51243
<211> 297
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-C4

<400> 51243

gcgttcaagt accaactcta acatgagacg ttcacctaaa ggtcatgcac cgaactctgc 60
ctggtcagaa agaattgcta ggcgatcatg cgttcacttc gaggagctca tatgtctaca 120
cttattaagc tacacacctg acatacttca tggcaccatc taccattggc ctacagcgac 180
agcttgtcga gacattgact acctcaggac gattgctgga catcgtactg ttcctgtcga 240
aatctgaaag aattacgtgt gtaccgagtg gaagcagcag cttatcacat tttatca 297

<210> 51244
<211> 267
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-C5

<400> 51244

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tcgtaaccat ggcggtattc aaggccgctg cggcggtgac gctccgcaca cgcaagttca 120
tgaccaaccg tcttctgtcc cgcaagcagt tcgtgctcga ggtcatgcac cccggccgcc 180
ccaacgtctt caaggcggag ctcaaggaga ggctggcgaa gatctacgag gtgaaggacc 240
caaactgcat ctctgtgttc acgttcc 267

<210> 51245
<211> 292
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-C6

<400> 51245

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gctacgaccg cgagttctac cagttcagcg accagttgcg cctgcagacg gacgtcttct 120

ctggcctctc gctcggcgac tccatctggg ccccgctcgg ccggcgcaac atcagcaacg 180
acgttctctt cggcgtctgc gcgtcgccg ccaactccgc cgccaagagc aacgccgtcg 240
tcgggctcaa gctcaacgac tgatggcccg gctcatcgg ctccgggaag ct 292

<210> 51246

<211> 410

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-017-Q1-K1-C7

<400> 51246

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ggtgcctaata tggcaaagggt ggttcaatca ttactgagat acggagaaca tccagagcaa 120
atgtacgtat tctttcaaaa gaaaatgttc caaaggtagc agcagaagat gatgagatgg 180
ttcagatcac tggaggcctt gatgttgcaa gaaatgctct tgtgcaaata gctacaaggc 240
tgaaagccaa tttctttgaa agagaggggt ctgtatctgc atttncacct ggtatccctt 300
accatgcttt gcctgcttgt gtttcggatg gacaaaaata tctaagcaga gacaccaagc 360
cttgtgggca ctatctatat tcaagtgggt ntcgtacatc ggatgacacg 410

<210> 51247

<211> 306

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-C8

<400> 51247

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taagaaagtt gagaggcgat catgcatttc cttggaggag ttcatatgta attacttttt 120
gcgcgacacc cccgtcataa ttagtggcac catcgaccat tggcctgcaa ggacaaaatg 180
gaaggacatt gagtacctca agaagattgc tggagatcgt actgttcctg ttgaagttgg 240
aaagaattac gtgtgtagtg agtggaagca ggagcttata acattttctc agttcctgga 300
tagaat 306

<210> 51248
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-C9

<400> 51248

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tgtctgttgg atttgaagat cctcgtgttc aacttcattgt tgggtgacgct gtggagttct 120
tgagaaatgc tcttgaaggg acatatgatg ctatcattgt tgattcatct gacccaatag 180
ggcctgctca ggaacttgtg gagaagcctt tttttgagac catcgctaga gctttgaggc 240
ctgggtgggtg tctttgtaat caagctgaga gtatgtgggt gcatacacat ttgattcagg 300
acatgctttc aatttgccgt gagactttca agggttctgt ccgctatgca tgggctagtg 360
tcccaacata cccgagtggg gtgattgggt ttctgttatg cgc 403

<210> 51249
<211> 289
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-D1

<400> 51249

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agctctgcgc cgaccgcgac acctacgtgt tctgggacgc cttccacccc acggagcgcg 180
ccaaccgact catcgtgcag cagttcatgt cgggctccac cgactacatc acgcccata 240
accttagcac cgtactcgcc gtcgaccatc agaagcagca gctgcgtac 289

<210> 51250
<211> 216
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-D12

<400> 51250

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 gtggttggtt gagcattaat ggctcatatt ttgtcaggtc tatgtgtcgc cgtgaaactt 120
 ttaatcaaat cagttcactc ttttgccaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaaaaaa aaaaaaaaaa ataaaaaaaa aacaaa 216

<210> 51251
 <211> 341
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-017-Q1-K1-D3

<400> 51251

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 atggctggtt atagacctga aatgggtaat gtaaataatt tccatatgca ccctcgccag 120
 cccaactatg gagaatttgg attgatgatg ccaggcccat caggtcaga ggtgaggggc 180
 aatcatccag aggcgttcga aaggttgatc cagatggaga tgtcagccag atcgaagcaa 240
 cagcaggtgc accaccctgc aatggccgct ggccgtgtgc ctagtgggat gtacgggcac 300
 gagcttgatg cgaaatngag atacagatga tggatgcctg g 341

<210> 51252
 <211> 325
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-D4

<400> 51252

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 acccaccgcc gccccaaga aggatgagaa ggccgtcaac gccgcgcgcc gcgccggtgc 180
 ggagatcgat accatgaaga agtacaacgc tggtagaac aaggcggcat ccagcggtac 240
 atccctcaac accaagcgc tcgacgacga caccgaatac ctgccccatg agcgagttcc 300
 aagtgatctg aagaagaatc tcatg 325

<210> 51253
 <211> 186
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-017-Q1-K1-D5

 <400> 51253

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 ccgtcggtcc atgtgccgcc ggcggttcat catgacgcct ctaccatacc actaccatac 120
 tcaaccgcga cagcctcagc ctcatatgca gggacaccca tgcccgtacc aacagccgca 180
 tccaag 186

<210> 51254
 <211> 425
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-017-Q1-K1-D7

 <400> 51254

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 cacaggcaaa cccccgtcat ggcctcctac aagatactgc gcgccgccgt cgtcgtcgtg 120
 gccgtcgccg tgtgtttctt cgacggctcc gacctagccg cctaggctcc tgcgccgagc 180
 ccggcctccg gcgccgcggc cgtctcctcg tcgctcttgg ccgccgcctt ctgcccggcc 240
 gtcgcgctcc tcctcggcaa cctgcgccac tgatgacgcc tgcttgcttg tncgacgaga 300
 gccgncgtgt gctgtcgcgt gatgttattg gcctctgtat gtgtgtgtgt gtgttcctga 360
 cctgtgcgtg ccttgtaccg ncaccccgcg cgtggatggg aactttatcg atcgttcgga 420
 gattc 425

<210> 51255
 <211> 249
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-017-Q1-K1-D8

 <400> 51255

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ccagcatctg accgatcagg caggactggg aacccttatg ttcgcgctag aaggcacca 120
ccagaccagc ctacaatgct gacaaagcct tcaacagctc gcgacgagcc tgtgcactaa 180
tcgataccat gaagaaactc aacactgtta cgaccaaagc tgcattcagc ggtacattcc 240
tcaacacca 249

<210> 51256
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-D9

<400> 51256

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ggggaagccg aaccaccgcg tatcaaacad aggaagcac gtgatgattt ccttgcaatg 120
ttggaataac gcatggagct tacatcatca acaagatgga ccaaagcaat acttatgttt 180
gaagatgatg aaagattcac agcacttgaa cgtccaaggg agcgtcaaca tttatttgag 240
aactatcttg tggaactgca taagaaggaa aaagccaatg ctgctgatga acacaacaga 300
tatgttacag aatacagagc ttttctagaa tcatgtgact tcatcaaagc aagtactcac 360
tgagaaaaag ttcacgaacg tctggatgac gatgaacgtt attcccgact tgaga 415

<210> 51257
<211> 426
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-017-Q1-K1-C12

<400> 51257

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cattcatacc aggagagggc acatagaact tgcccagggt gtaagctgtg tgggtcaaaat 120
tacaattacc ccaatggtga ggaattttct gcaatcagcg gttgtcagga ggcatactac 180
cagacagacc atgatctgat tccttcaact tctcaagtag catctcattg cgagggttct 240
tgctgcaagg gccagcagtt gaaaccgaaa agttattctg tgatgcgtga ttatgactat 300

atcaatcaag agtcaacacc tagttcaagt gaccatgccca gaacaagatc taatcttcca 360
gcgccgcctc atcattggca tgttaaacad tctaatagagc atcggangca tgttactgat 420
gcacat 426

<210> 51258
<211> 267
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-E1

<400> 51258

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tgttgagcct gagatccttg ttgatggccc tcatgacatt gatcgctgcg cttacgtcac 120
tgagacagtc cttgctgcct gctacaaggc tctcaacgag caccatgtcc tcctggaggg 180
taccctcctg aagcccaaca tgggtactcc tggtccgac tctaagaagg tgacacctga 240
ggtgatcgcc cagtacaccg tccgtac 267

<210> 51259
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-A7

<400> 51259

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tcatttgact gtgtcaatta gagatgcaaa gtgaagcaac aagttgaacc tgcaaattac 120
tagatgcaaa aaaggcactc ctggatacct tgtttggtgt tcatgcagtc ctgctaatat 180
gaacaactcc atcttcttgt gaatcttaag tatatttgga aaatgtggaa aacacgaaaa 240
cctgaaccag cacaagaatg cttacaactt ctcaaggatc acctgaacct ttggactatc 300
agaacttcat cgaacctgaa tcaacattcc ccggtcatca ccttgaatta gtggcgtaac 360
cattcttatg atgcaagcac atagcttgct tatttggtcc ttaaatcatc ac 412

<210> 51260
<211> 312

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-017-Q1-K1-A8

 <400> 51260

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 tgttactgca gaggatgtcc agaagagcag gatctttctat atcctatggt ccccatcctc 120
 cgccaaggtg aagagcaaga tgctttatgc aagctcaaac cagaaattca agagtggcct 180
 caatggcatt caggttgaac tccaggccac agatgcgagt gaaatcagcc tcgatgagat 240
 caaggatcgg gcacgctagg cgcaccgnca tcgcgagttt catggtcacg catcatggac 300
 tcgcctacta ct 312

<210> 51261
 <211> 400
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-017-Q1-K1-A9

 <400> 51261

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 cttcacatta ttggagccag aggagcgggc ggcggcttgc actccatccc atcgcttggg 120
 tgcgtcgccc cgaatccaat cgcttggtca agtctgttgc tgccggaggt agacggacgc 180
 cttatcgtgc tcgtggccgc agctagcgcg ccggagccac agctggagcg ctgcgccggc 240
 acgagtcgcc gccccgcaag gagcctacgc aggcacgcac cgnacgtct aggcgccagg 300
 cggagacgtt attaccacaa cattaaagga gatgccttca ctccagaaag cattgcctnc 360
 agaactngct gataatgtgc tcaggttata tcgtgaatgc 400

<210> 51262
 <211> 345
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-017-Q1-K1-B10

 <400> 51262

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atctagcaaa acgatcattt tatgatgcca tgcaacatga cattctagaa atatgggtgg 120
ctaccacgaa gtgagtgtag cattatgtat tatgtttctca tttgttcac c agttgcaaca 180
actatattgct aaactctttg aattttgtaa taattggaat gtggtcgcat ggtcagacta 240
tgtttgcttt ctaaaacact catgtcttag tttataggtc gtgtacactt atttaagtta 300
ttggttgatt aagatctggg cttcaagtgc aaaaaagaag acgag 345

<210> 51263

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-B11

<400> 51263

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atatggcctg gccggagggt acaatagtag tagatgcaac agctaaattc acacgtacaa 120
atgcacgcac acagtgggtg cactcacaaa tatatatacc ctaacagttg cactaatcac 180
aattattaat aattaagcaa acgtacgtag agttacttga gatctcgatt tggcacatga 240
tataactgca tgcgtgatct atctcgattg ggggccgggc gccgccaggt atagcgctga 300
tttcatcatc cgagctggag ggttgtaggt tgcagctgat gggagtagtg ctgaggcatg 360
ctcacttgca gaaagtttct cgagtcgaaa ggggccatgt ggtcgtactc gctcgt 416

<210> 51264

<211> 160

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-B12

<400> 51264

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gccaagatgc tcgaccccga ggtgtacccg cggccacccg gggaggtgta catatgtggg 120
atgagcaagg acgagaaccc gccagatgac ccagcaacga 160

<210> 51265
<211> 307
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-B2

<400> 51265

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aagggtgaaga gcacgatgct ctatgcaagc tcatgccaac acacctgaca gtgccctcaa 180
tggcattcac gttgaacttc cggccacaga tgcgagggaa atcagcctag atgccatcac 240
cgatcgggca cgctaagcgc agcgcaatcg ggagggccat gggtacgcat catggactcg 300
gctacta 307

<210> 51266
<211> 285
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-B3

<400> 51266

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cataagtgga ttgcacctgg acacctcttc acctgcggtc ctggttctta caaaatacc 180
tctgtaaag atataacctt gaatttcaag gtttctctat taaagggtgt tccaaatcca 240
aaggctattc attcttccaa agccgtggga gagccaccat ttttc 285

<210> 51267
<211> 169
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-B4

<400> 51267

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ttccactgga attcgtcaga tccttggaact aacgtgacac cttgtcatgc tagcgagagc 120

actggtggag gtggaacact gcatattcgg cgcattgagtg atttgatct 169

<210> 51268
<211> 290
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-B5

<400> 51268

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accacagctt cgatcgatcc gcaaggcacg caagatgtac aacgcgccgt ctgcccattga 180
gatgtcctac ttggagcacg tgcattaggct ccactattag aagggctgcc tatacgcctg 240
catcttcact gctctgtgct gcttctactg ctaccagacc tgctagtgtc 290

<210> 51269
<211> 122
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-B6

<400> 51269

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agcgctgcaa gaacaccaga gcagaacaaa caggcatgca aggaagcgga caccaaaagg 120
ca 122

<210> 51270
<211> 286
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-B7

<400> 51270

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caccgagcct ggactaccgc cgccgccctt cgccgatatc ttcagcggct aacagcgccc 120
accagatccc gccctgcga tggagtccgt ggtgaaccgc aaggcatacc cgctggctga 180

tgcgcagctg acgatgggta tctctgatat cattcagcag gcctgcaact acaaacagct 240
 caagacggga gcgaatgaac cgacgtaaac cctgaatagg ggcata 286

<210> 51271
 <211> 241
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-B8

<400> 51271

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 acatgggtcc tgaagggcag tatatcacat tgcaggttct agtgaatatt ttggagcata 120
 ctgaatgcca tgctgattat aacttgacac ctcggaacac tattgagcca gtgataacct 180
 tactgaattc atctacacca gctgtacatg aattagctgc acaactacta tcacatcttc 240
 t 241

<210> 51272
 <211> 403
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-017-Q1-K1-B9

<400> 51272

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 ctcatcctcc gatgcgggtg gcggtggcga ttctgaagac ggcgacttcg ccggctccca 180
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 ggagcggcgg cccctgttcc agcgcctctg gaccgaggag gacgagatcg tgatcctccg 360
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<210> 51273
 <211> 314
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-C1

<400> 51273

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ctcaaaggct catgcggcaa gtcgctcgcg ccgttcccg c aaggctgctt ctactccaac  180
gccctcggag ggctcaagtg ctacgagaac cccaagcaca aggtcaccgc tgttcccgac  240
gacgaagaag agatctgcgg tgccactttc aagggtggtg aaggctctac tgtcctgacg  300
gcgctgcact gatc                                     314

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<210> 51274

<211> 425

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-017-Q1-K1-C11

<400> 51274

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tccctgcgca gccccagat ccggcaccgc ccgctcctcg atccccgcac cccacgcccg  180
caggccggga ccggcggggg cgcgcgccgg gtaggaggag gagaagagga aggggtggtat  240
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tggagacagc ggtgttggca agagttgcct cctgttgagg ttctctgatg gttccttcac  360
tacaagctnt attaccacaa ttggtattga ctttaagata cgaacgatag aattggatgg  420
caagc                                             425

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<210> 51275

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-H10

<400> 51275

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caagaggagg agactagact ggcaattcct ggctatgtga ctccattgaa agctggagag 120
gttatggaat caaccgaagg aatgatgaac aatgaactgt tggcgtagc tctgcagat 180
ggaagcatgt atagggagga ggatggattt ctgccacagt ggtttagtga aacaatgtct 240
ggccccctgc tgagctcagg aatgtgcaact gaagttttcc agttcgatgt gtccccatca 300
tcagctcatc caaatggcat cattcctgtc tattccaatg ccatgtcaaa ctcgtcacag 360
aacttcactc aagatcttca tctgtctcgt gttcgc 395

<210> 51276

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-H11

<400> 51276

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cagtgcgact attggcagtt gagggttgtg ctgctcttgg gaagttgttg gagccccaag 120
attgtgcagc acatattctc ccagttattg taaatttctc tcaggataaa tcttggcgtg 180
tgcgctatat ggtggcaaat caactgtatg aactatgtga agctgttgggt actgaaccca 240
caaggggtga tctggtgtca gcgtatgttc gccttctctg tgacaatgag gctgaagtgc 300
ggattgcagc tgctggaaaa gttacaaaat tctgcaaaat attaaaccca caaattgcaa 360
ttgaacatat tcttccgtgt atcaaggaat tatcatcaga ttcatctcag catgttcgtt 420
cagctttggc atc 433

<210> 51277

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-H12

<400> 51277

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gatggcgact gtaggcagtg gagggtcgtg ctgcatttgc gaactgggta aaacgccag 120

attgttcagc acatatgtct tcagatattg actggtgctg tcaggataaa ccgtggcgct 180
 ggtgctatat gatgtgacgt cgattctgtg aactatgtga agctattggg actgaaccca 240
 cacggggaga cctgatgtga acttgtgctg gggttgtcta tggcagaaaa gctgacgtgc 300
 caataggatc ttgtggaaaa ggtcatgat gatgcttatt attcagcaca taacttggaa 360
 ccgagcatat actgtcatgc tgcaatggat ta 392

<210> 51278

<211> 354

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-H2

<400> 51278

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 tgggtatcac aagagcaggg gtagagacac agagagctaa aagaacatta ttggacgcga 120
 gggagcagag tagaactgta gaaggagtg gtgtacgtgc gctagactgc cagtggcagc 180
 tgctgcaagc tagctaaggt gaaggatgga tatcgagtct aggcaagttt ccaaagggga 240
 cgccatagct gctgctgtct ctgttgactg gaagggaagg ccctgcgacc ccctcaagca 300
 cggcggcatg aaagccgcgg tcttcgtcct agggatccag gcgttcgaaa tgat 354

<210> 51279

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-H3

<400> 51279

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 tcgttgcccc gtggacgcgc tgaagctggg cgtgtgcgcc aacttgctga acgggctgat 180
 caacgcgacc ctggggacgc cgtccaggac gccgtgctgc acgctgatcc aggggctggc 240
 ggacctggag gcggcggtgt gcctctgcac cgtcctcagg gccaacgtcc tgtgcatcaa 300
 cctcaacctg cccatcaacc tcagcctcct cgtcaactac tgcggcaggc gcgtcccatc 360

gggcttccag tgcttctgat atatatgggtg tagtattata tatgtccatg catgcaatgc 420
atctcgtcgt ccatcacatg 440

<210> 51280
<211> 356
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-H4

<400> 51280

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atggctgggtt atagacctga aatgggtaat gtaaataatt tccatatgca ccctcgccag 120
cccaactatg gagaatttgg attgatgatg ccaggcccat caagtccata agtgaggggc 180
aatcatccag aggcgttcga aaggttgatc cagatggata tgtcatccag atcgaagcaa 240
cagcaggtgc accaccctgc aatggccgct ggccgtgtgc ctagtgggat gtacgggcac 300
gagcttgatg cgaaattgag atacagatga tggatgcttg gatgcttcac tccgta 356

<210> 51281
<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-H5

<400> 51281

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gaaaggcgcg gagcaagatg tcgtggcagg cgtacgtcga cgagcacctg atgtgcgaga 120
tcgaaggaca gcatctcagc gccgccgcca tcgtcgggtca cgacggcagc gtttgggcgc 180
agtccgagag cttccccgag ttaaagcctg aggaggttgc tggatcata aaggactttg 240
atgaacctgg tactcttgca ccaactggtc ttttcgttgg aggtacaaag tacatgggtga 300
tccaagggtga acctggagtt gtcatccgag gaaagaaggg cactgggggc attactatca 360
agaaaaccgg catgtccttg attattgggtg tctacgacga gccaatgact ccagggaat 420
gcaacatggt ggtggagagg ctcgg 445

<210> 51282
 <211> 303
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-016-Q1-K1-H6

 <400> 51282

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 cttagccact ctgcgcgtcg cgcgctcggc agggcagcgg ttgctccttg ccttcaaggc 120
 cgcccccttg gcggttcttt tccttcgcgg cggcgggctt cctttgcaag gcgtgttcct 180
 aatcgggggg cctcgcgggtg tcgccctcta atagccgcgc gcgttcgcac atataaccca 240
 gcgccaacc cagggacgca gatctagagt ctaaactcac acacaggggtg cactgagaca 300
 tac 303

<210> 51283
 <211> 424
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-016-Q1-K1-H7

 <400> 51283

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 gcttcgccac tctcgcgcgc gcgcgctcgg cagggcagcg gttgctcctt gcctgcaagg 120
 ccgaccgctc gccgctcctc tccctccgcg gcgcccgcct cccttcgcag ggcgtctcct 180
 tatctggggg cctcgcggcg tcgccctctc atagccgcgc gcgcttcgcc acatcagcca 240
 gcgccgaacc caaggaagca gaacttcagt ctaaaatcac aaacacgggtg tactttgaca 300
 taagcattgg gaaccctgtg ggcaagaatg ttgggaggat cgtcatcggc ttgtacgggtg 360
 atgatgttcc acagacaaca gagaacttcc gtgctctttg cactggagag aaagggtttg 420
 gata 424

<210> 51284
 <211> 437
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-016-Q1-K1-H9

<400> 51284

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gcggttgaat cccttgtctt cgcccccttc ttcgccgcc atggtggcat tctcttcaaa 120

tggctctaag ccagcgagag acgcaggata aaggccgtag ttttgcaagg cgagtagagc 180

agtatgtcag taatacagca tctatggcat gtgcttttgc tcgtccagtt catgagcccc 240

gttgtgtatt tggtttccgc tttcttgggt ggagttttta gttccaaggt ccgatcatgt 300

tttgatccca taaattctct tccagccttc gagcaactga gtccatcttc ctaagtcac 360

agccccagcg agacattgaa gcatggggaa acttaaacag tatggtgatg attaattctca 420

gcattttttg tcttgca 437

<210> 51285

<211> 314

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-A1

<400> 51285

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ctatttgagt tcaggaaca actcattttt cttcaggaga ggcaggtgca cacatctact 120

tttttttttc aaatgaaaca tatgacctta aatttgaagg attatctact atctagttaa 180

acataaactc tcatgaatgt aaatgaaaag ggataacctc acatttgtca cacacacata 240

cgtaggcata aaatattgct aaacttagaa gacatatgga tgattgaatt cactacttta 300

ttttttacaa gaca 314

<210> 51286

<211> 313

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-A10

<400> 51286

cgagcacatt caatagacat actgtctgaa gtgctcactg ctctgcaaga attaaatggt 60

tactgcaaaa agataggta ctataacatg aagtgcata ggagtcctgg ctttctgct 120

cacattcata acaatcataa cttcatggca aggtccattg aaactgatag cctcagtcag 180
 aggtataagt gctaattaac cttgaaattc acgtgtgcac cacaagagac gcgatatacc 240
 tctctgattt gcaaagagtc agggagcctc agctcctatt tatggactcg tgcacgggct 300
 ttctaactac act 313

<210> 51287
 <211> 405
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-A11

<400> 51287

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 gccacagctg ccgattcgaa agccctcgtc ctgaccctc gcaaaaccct agctccaacc 120
 accatgaagg gcaaggccaa cgcctccaag aaggatgagg ccaggctccg ggccggcggc 180
 ggcgggcgccg gaaagcgcaa gaaggccgtc gcgagcggca agccaagcg ccctccctcc 240
 gcctttcttcg tcttcatgtc tgaattcagg caggagtacc aggcgcagca ccctggcaac 300
 aagagcgttg cggccgtgag caaggcagca ggggaaaagt ggcgctctat gtcagagcat 360
 gagaagcaac cctatgtgga ccaaagctgg cagaagaagc acgac 405

<210> 51288
 <211> 369
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-A12

<400> 51288

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 tcttgaagag ccctgctgtg aatattccct tctgtgattt cagtataggg ccagtgcata 120
 agaaggatgt tatgaaggct agtgtcatgc ttgagagaaa gaaagaatat gcaactatct 180
 tggcctttga tgtcaaagtg atgcctgatg cccgcgatct cgcagaagag ttcggtgtga 240
 ggatctttgc ggcagatata atataccatc tggttgatca attcacagca tacattaaga 300
 acctgacggt agagacgcag aatgaaagcg cttgacaagc tgcgttacct cgtggtctta 360

agattatgc

369

<210> 51289

<211> 283

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-A2

<400> 51289

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cctctgcaac tacggccccg cctcctcac cggcggcggc accactctcg ccgcgctcgc 120

tgtcctgctc ctcttccact ttctgcttgc tatgctttta tggagttatt tttctgtggt 180

gctcactgac cctggttctg ttccacaaaa ttggaatctt gattttgatg cgcagagggg 240

agaaactgct cctctcacta gctcagagtt cagtagcccc atg 283

<210> 51290

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-G9

<400> 51290

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ggagagcctc tcacggtctt cgagcttcac gacgacggtc acattgacct tactgtcatt 120

ggccacacc ttgaggcagg ccagcgcgcc cagtataccg tgccaccgaa cgtgtggttt 180

gggtcgttcc ccacactaga cgtcgagtcg ttcgcatctg atggcagcgt tcttgtcaag 240

tctcggaaga gggaccctga gctgcattac tcccttggtg gctgcacctg tgcccctggc 300

ttccagtacg aggattttga aatggccaaa tttgaggacg tgagatccat cgctcccaag 360

gctgaacctt tcctcaagtt tcttattccc tctaccgatt aac 403

<210> 51291

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-F4

<400> 51291

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agataaaaagc actaaggacg aggtttcagt tgtcaaaaag agtccaaaat gaggaagtgc 120
ccatggcaga ggaagctctg gcgatgatat cacaatcatt taggcaggtc gttcttgatg 180
tgaaagttgg acccccttca tttgagaaag gtttagctga cgatattttg tctcttctca 240
ggagaacaaa ttgcaagaat tgtcttgtct gggcaaaaag tgatgatata ggaagagaga 300
taattaaatt gtctaaagat gttattgttg gctatgttgt catggtggat aaatttacca 360
atagaagaac ggagttagtg aggattgaag gggctaaagt tgctggcata tatcatcctt 420
tgatccatg 429

<210> 51292

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-F5

<400> 51292

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cctcgccgat cgatacgatg gccgtcttct cggacctcca caccgccgac ggcctcaagt 120
ccctcgaggc tcacctgcc ggcaaaacct atgtgtctgg tgactccatt actaaggatg 180
acattaaggt cttcgccgcg gtgccgtcga agcctggcgc tgagtctcct aatgccgtcc 240
gctggtacga gaccgtctct gcggctgtag cctcaagatt ccctggtaag gctgttggtg 300
taaattctgcc tgcgggatca gtcctgcgg cagctgctcc tgcggatgag gctgaggacg 360
atgatgacct tgatcttttt ggtgatgaaa ctgaggagga caagaaggca gctgatgag 419

<210> 51293

<211> 432

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-016-Q1-K1-F6

<400> 51293

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 ctctgtctgtc caccgctgac cgctcgtttg tcagcctagc accgggggtgc atgaacgccc 120
 agtatatgct acagcaccgc cggccctggc cctgccgcct gcgcgggtcg ttgccctgtg 180
 cactccgagg gcctcgggaa tggccaacca ggacatttat cggtttgccc accctctcct 240
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 attgtttatt ggcttctggc ttttaattaat tactgtattt gcatgttcag gtatgttgct 360
 catccatctc gtatgatgaa gtgttttatg ctctnttcca attattgttg caagtagcat 420
 aattagaaca tg 432

<210> 51294

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-F7

<400> 51294

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 cgtacgtggt ggcgtctctc agctcgggtgc tgtggatctt ctacgcgctg gtgaagacca 180
 acttgaggcc gctgctgacc atcaacgcct tcagctgcag cgtggaggcg gctacatag 240
 tcctctacct ggcgtacgag ccgtgtcggg cgcgcctgct gactctggcc taactgttcc 300
 tgctggacgt ggcggccttc gcgctcgtcg tcggcgtcac gctcttcgcc gttcgcgagc 360
 cccaccgctg caagttcctc ggcagcgtct 390

<210> 51295

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-G1

<400> 51295

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 ggaaggaatc tttgagggtca aggccacagc tggtcacacc catcttggtg gtgaggactt 120

tgacaacagg atggtcaacc acttcgtcca ggagttcaag aggaagaaca agaaggatat 180
 cactggcaac cccagggctc tccggaggct gaggaccgct tgtgagaggg cgaagaggac 240
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 ctactccacc atcaccctg ccagggttga ggagctcaac atggacctgt tcaggaagtg 360
 catggagcct gttgagaagt gcctgagggg tgccaagatg gacaagagca ccgtccatga 420
 cgttgtactt gttggtggct ccacta 446

<210> 51296

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-G10

<400> 51296

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 cttccaaggt ttcctaagga aaattagttc attttttttt ttgggaaaat gaagtttcca 180
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 gataccggtg gggtgagaat tagaccatca gtagcttact ctttcccata tttaaactat 300
 aatctacact acaaaaatagt gcaaaaagggtg ttcatagtga cctatgaata atataatcta 360
 cactacaaaa atagtccaaa aggtgtttgt agtgaccata tatgggtgta cattgtacct 420
 ttttacattg tatttgta 438

<210> 51297

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-G11

<400> 51297

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 gaaaaatgca aaataaaata taataaaata aaaatcaaat taaggactaa aacgggaact 120
 tattcttcca aggtttccta aagaacatta gttcatatat ttttttggga aaatgaagtt 180

tccaaaaggg tttcaaatcc atggtggtgt gcgaattgat tgcagtaaag gcgatgggta 240
agctgatacc agtgggttga gaattagacc atcagtagct tactctttcc catattttaa 300
ctataatcta cactacaaaa tagtgcaaaa ggtgttcata gtgacctatg aataatataa 360
tctacactac aaatatagtc caaaatgtgt ttgtagtgac catatatggg tgaacattg 419

<210> 51298

<211> 296

<212> DNA

<213> Zea mays

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<400> 51298

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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa agggagaacg 120
aaaagaagga accgaagcta tagtgcaaat gaatgcaaat taatagagcg ggaaaaagag 180
aaataaaaaat aaaggaaaaa aggcagacgt ggcaaaacta aaaggatggg gaaaaccatg 240
cgggtaccaa aataaaggga aataggagaa aaggcccata tggatagtag gcgaaa 296

<210> 51299

<211> 304

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-G2

<400> 51299

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aggctgatgg cgtaaagggtg aaccgcaact tctcaaacgg cactcctcca aacagaacgc 120
tctcaatcag tggccaacac aacggtggtg gccatggcgt caggtctgga gggaaggatt 180
gcatgacaga cacggcgaat acagcatctt caggaacaa tgcagataga gctgctcctg 240
tggacgcggt cttccaaatt actgtcaccg atccggtttc gagctcacca tgatctttaa 300
ccta 304

<210> 51300

<211> 157

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-G4

<400> 51300

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aaaagcaaaa actaaaaaaaa aaaataaaaa aaataaatac ataataaata acactaacta 120

taattttctc aaaaaatata caccctaaat taaacat 157

<210> 51301

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-G5

<400> 51301

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cagttaaagt tttgtagtgc tgtctgtcag ttgctgcctc aaacttgga tactacttct 120

gtttggcacc tgaactgctt atcaaaaact ttatgtatac cagttacatt ccacttttta 180

ccaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa ataaaaaaaa aaataaataa 300

taaaaaaatt aaaaatatta taataaaata aaaataatat aaatataatt taaaaaataa 360

aaggggggggt tttttta 377

<210> 51302

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-G6

<400> 51302

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cctgcattgc ccttcagga ataccacct ggaataacac ttgtacctat gaagagtagg 120

acactagcgc cattccgtac aactaatctt gtggtagtaa gatcaaccaa tgggtgctggt 180

ggatctacat gttctgattt ttttgcttcg ggggaagctc tgcttataga tcccggatgc 240

agctctcagg ttcattgcaga gcttgcagat ctcatcgatt ccttccaaa aagggttatta 300
gtttcttgta cacattatca tcaggatcac attgagggtc tttcagtcgt tcagagatgc 360
aatcctaattg ctgttcttct gacacaccaa agtacaatgg atcgcatcgg gaaaggaact 420
tggcagattg actacacttc 440

<210> 51303

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-G7

<400> 51303

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ctggctttca agtatttcaa agcgccaaaa gaataccaga atcgaatact ttcttatggg 180
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aaatttgagg cggatgaactt gctgctggct gtgatcctgt tattcacttc ttacaagcta 300
tttgctgaac aagaacacga atctgatcta tccgataact tcattgcgaa aacatgccaa 360
aagttcattc cagtcactga atattatgac gacgatcggg tttcacagat caggaccggt 420
tatggaaagc 430

<210> 51304

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-G8

<400> 51304

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aacactggcc gcgtgggtgt tatcaagaac aggggtgaagc acaagggcag ctttgagacc 180
attcacgtgg aggactccct gggccaccag ttcgccaccc gtatgggcaa cgtgttcacc 240
atcggcaagg gtaataagcc gtgcgtgagc ctgcccaagg gcaagggaat caagctgagc 300

atcatagaag agcaaaggaa gcgggatgcc gatgcccattg ctgctgcca cgcattcaatc 360
ctctgaatgt gctgagttga gagttttttc tagttgcttt gcatgggttat agaacaatgt 420
tctaagacta ccatgtcttt aag 443

<210> 51305
<211> 447
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-016-Q1-K1-F3

<400> 51305

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agaccatccg ccacatgatc gaggatgact ggcgcgacaa cggatatccct cttcctaacg 180
tcaactccaa gatcctatcc aaggtaatcg agtactgcaa caagcacgta catgccgncg 240
ncgncggcgn cgccgtctcg aaggccgggtt ccgacgacgt ggggtgccgcc tccgccaaca 300
gcaccgacgc ctccggtgag gacctcaaga actgggatgc ggacttcgtc aagggtcgacc 360
aggccaagct tttcgacctc atcttggtcg caaactatct gaacatcaag ggtctgctcg 420
acctgacctg tcagactggt gctgaca 447

<210> 51306
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-E10

<400> 51306

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taataatagg tgaagacttg caactctctg tacggctcgca atcacatcta tgcagctatg 180
gttctgaaag tgatcaagag attgccaaat ccatgctttc tgactgcatg acagatgtcg 240
agattaacga tcatcgagtg cttgatgata ttgcctctgc actgtctaata ttcacgcaga 300
tgggtcaagga tgtaatatgc aacgatctga ctgagttggt cagcctgaa gagatgcctc 360

tgttttggtc gaattcagca cttgactggg ccaacttcaa tgcacaagca tattctgatg 420
aat 423

<210> 51307
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-E11

<400> 51307

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agccaacagc taggcaggta gtagtagtat acatgagcag gttcgcgggg cagacgtcca 180
ccaggccgtg ggtggggatg gcgggctctg ggcgccgcgc gtccgagcct gccgccgcgc 240
acgtcgcgag ggacgacgcc acggcagcca tgagggggcg cggtgccggc gccggcacca 300
acgccagcgc catctacttc ggcttcgcgg ccacggcggt cctcgtctgc atgttcctcc 360
tcatgggcat cttagagcac ctcacaaagc cc 392

<210> 51308
<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-E2

<400> 51308

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ggtgcatgat gaaactccga ctacgatgac agcttcctga gggccctggc atgccggcaa 180
gctgtacagc ttaaacaggt cgatcgtgac gacacgtacc tgggtactgaa tcaggggtgc 240
catctgtccg aagtacaacg tactcgacac acagggactg atcaagacca ctgtcagaag 300
aatcatcgag tggctcaaat gcaaggttta cgacgacctc tactgtggac tatcaactga 360
tctgattaac gcgagactac tgaat 385

<210> 51309
 <211> 446
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-E3

<400> 51309

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taggagacgg cggagctgct gccgcggcgg cgtccaacaa cctggtggtg tcgttcggcg  180
agatgctgat cgacttcgtc cccgacgtgg cggggctgtc gctggccgag tcggggcggt  240
tcgtcaaggc acccgggcggc gcgcccgcga acgtcgccctg cgccatcgcc aagctcggcg  300
gatcctccgc ctctgtaggc aagtccggcg acgacgagtt cgggcacatg ctggtgaaca  360
tcctgaagca gaacaacgtg aacgcggagg ggtgcctgtt cgacaagcac gcgcggacgg  420
cgctggcctt cgtgacgctc aagcac                                     446
  
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<210> 51310
 <211> 356
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-E4

<400> 51310

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ctctaggaga cggcggagct gctgccgcgg cggcgtccaa caacctggtg gtgtcattcg  180
gcgagatgct gatcgacttc gtccccaacg tggacaggct gtcgctggcc gagtcgggcg  240
gcttggtcaa ggcacccggt tgccgcagct gccaacgtag cctgcagcat cgccaagctc  300
ggcggatcca tacgcttcgc aggcaagttc ggcgacgaca agttcgggca catgct   356
  
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<210> 51311
 <211> 442
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-016-Q1-K1-E5

<400> 51311

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aaagatggag agctggcttc ttacatgtca cgcttggcct cattggaatc tattcggaat 180
tcactagcag aggagttggt aaaactgaca gaacaatgtg aaaagttacg gactgaagcc 240
actgctgtgc ctggcttaag ggctgaattg gaagctctga aacaaaggca ctttcaagct 300
ctagaactca tgggggaacg tgatgaagag ttggaggagc taagaaatga tattgttgac 360
ttaaagaga tgtacagaga gcatgtggat cttcttgta gccagctcca gtcattgngt 420
gctcgtgtat agcgctgcct gc 442

<210> 51312

<211> 261

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-E6

<400> 51312

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ccaaaaatat taaggcttca gatccactct aagagggctg caggcttggg ccagttgtta 120
gtgaatgaca agctgagaag attcatatgt tgatatcgaa tgccaaaagc catggtgcta 180
ctattctgac tggaggtgtt agacctgcac atctagtga ggggtctct atcgagacca 240
actatgatta ctgatcac c 261

<210> 51313

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-E7

<400> 51313

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gtggacttca tggaggacac gatgaagccg taccgggccg tggccaacga cgaagggatg 180
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 ccccaggtga tgggcgcgga ggacttcggg ttctacgcgc agaggatggc gggcgccctc 300
 ttcaccatcg gggtcggcaa cgcgagcacc atggcgacca tccattccac ccaactcgct 360
 cacttcgtcg tcgacgagga cgtgcttccc gtcggagctg cgttccatgc tgctgtggcg 420
 attgaaatgt caggaagaac c 441

<210> 51314

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-E8

<400> 51314

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 cgtcttcgcc atcgtacaga tcggctcgca tcaattcaag gtgagcaatg gcgactcaat 180
 cttcacggag aggttgaagt tctgtgatgt gaacgacaag ttgttcttga accgagttct 240
 catgcttggt tcacaaactc aaacagttat tgggaggcca atactacctg atgctgctgt 300
 tcatgctgtt gtggaagagc atgccttaga tgcaaaagtg atcatattca agaagaaacg 360
 gagaaaaaat taccgacgga caaagggcca tcgtcaggag ttgacaaaac tgagaataat 420
 caacattgaa agaatagat 439

<210> 51315

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-E9

<400> 51315

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 cgcagggcgc tcaaggacac gctcaactgg gccgtccacc gccacctctt ctaccaggac 180

gcgtcggatc tccgggacaa gttcgaggcc aaccgacacg tggataacct ggacgtggtc 240
gataggctca ttgacgatgc ggaggctcag tacaggaact tccagcaccg cgatccctac 300
attgttccat gggcaccagg cggcactaaa ttcacaagaa acccccctcc acctcaaggg 360
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<210> 51316

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-F1

<400> 51316

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ttatagggtc catttacaaa gcagaatcta cctgtgttct tgggcgtacg cggacacagc 180
cccgatccga atcgtcgtcc ttgcgagcct cgcgatccc cactccccct cccctcgtt 240
caagatgcag atctttgtga agaccctcac cggcaagact atcacctcag aggtggagtc 300
ttctgacacc attgacaatg tcaaggctaa gatccaggac aaggagggca tccctcctga 360
ccagcagcgg cttatcttcg ccggcaagca gcttgaggac ggacgcacac ttgctgacta 420
caacatccag aaggagtc 438

<210> 51317

<211> 221

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-F2

<400> 51317

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agtcgaaatg gagcgtgaca gtggcctctg ctcgtctctg tctgtagtag cataccaata 180
atactactcg cgaactctct ttctgagcaa acagattcca t 221

<210> 51318

<211> 51
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-016-Q1-K1-C5

 <400> 51318

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<210> 51319
 <211> 437
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-016-Q1-K1-C7

 <400> 51319

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 gcgcccgcga cgccgagctg gccggccgcc tgcagtcgct gggcggcgtc ctcgaggtgc 180
 tccagatggc cggcgccgcc gtcgacatcc cggagatggc caccgacgac cccatgctcc 240
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 agccggcggg agagagccaa tttctgtcgt cgtgccgctg tctatctcgt attggtatat 360
 ctattcataa atcatccttg tcatggtttg ctcttcttgt cagtgttata aatttgcttc 420
 ttgttagtgt tataaat 437

<210> 51320
 <211> 444
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-016-Q1-K1-C8

 <400> 51320

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 gtatcctgaa atagacgaga gtgattttag aaagggtgcc cagtggtttg cagttacgag 180
 gagacatgct ttaatgattc tggctgacag cctgtactac aagaagttca agctatactg 240

caagccagca gaagggcgca actgtattgc agatgagcat tatttgccaa cgctgttcaa 300
 tatggtagat cctggtggca tctccaattg gtctgttaca catgtggatt ggtccgaggg 360
 aaaatggcat ccaaggtcat atagtgtga cgatgtcact tatgatctct tgaagaatat 420
 tacaacaact gatgagaact tcca 444

<210> 51321
 <211> 433
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-016-Q1-K1-D1
 <400> 51321

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 cctcgcctac tcccacacca accagcgct cctccgcccc aggtcgttcg cggccaagga 300
 cgaggtgttc tgctgttcg aggggggtgt ggacaacctg ggtcgtctga gccagcagca 360
 cgggctgtca agcaaggcg ccaacgaggt gtcctcgtc atcgaggcct acaagacgct 420
 gcgcgaccgt gcg 433

<210> 51322
 <211> 422
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-016-Q1-K1-D11
 <400> 51322

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 gtcgcacgcg taccaccgcc gtgggctctg ggccatcaag gccaagaacg gcggcgtctt 180
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gcctgggacg gtgctgatcc tctcgcggg gcgcttcacg gggaagagag tgggtgttct 360
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 ga 422

<210> 51323
 <211> 450
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-016-Q1-K1-D2
 <400> 51323

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 tgaggacatg agcatttctg ggtggaaaga 450

<210> 51324
 <211> 424
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-016-Q1-K1-D3
 <400> 51324

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 ggaggagtgg agcatccaga tcgaggaggc caacagcgcc aagaagctgg tgggtgattga 240
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 caagaagtcc ccaaagtgtg atttctgaa agttgatgac gatgaaatga ataccattgc 360

tgagcaattc agcgtagagg ccatgccaac attcctgttc atgagggagg gcgacgtcca 420
tgac 424

<210> 51325
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-D4

<400> 51325

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acctctgaga cctgtgagga tgtctcctgg ctcccatcag aaatacagca cgccaccaaa 180
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aacaacagct actggtgggg cttcagttac tgtagccaa gttggaagtg atctgccaag 420
cacaacacca ccagttgcct tgt 443

<210> 51326
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-D5

<400> 51326

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ccatgcttgg caatgataac tcatggcagc tttaggtgct cttctgcatt gcgttggtgg 180
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agaactgctg acgaggtgag tggagtagag caaaagtgtt gtgtggtcat ctgttgatgt 360
cccaatccaa ccagcccact tttgttgtt ctagttggtt cgagtgttgt gtggcacatg 420

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439

<210> 51327

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-D6

<400> 51327

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actagagtgg gctgtattaa cacacactaa acaaaaacgg aaagaaaagg aaagatgtac 360
tcgtggttgt tctgttgtaa aattatgtcc aaactggttt ttttttgtcg tgaaagctcg 420
tcagctcgtg t 431

<210> 51328

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-D7

<400> 51328

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accgccccgt catggcgatg ctatcccgcg cagcctctc cgcgccccgg cgccgctgc 180
tgccgccgcc taggttctg gcggtgaggg cgatggcgtc gtcgtcttc ggccacgtcg 240
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ccgacaaagt gaacgtcggc gtcggcgctt accgggacga caacggccag cccgtcgtgc 360
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cgatgggagg cagcgtcaag at 442

<210> 51329
 <211> 446
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-016-Q1-K1-D8

 <400> 51329

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 gtccgacaaa gtgaacgtcg gcgtcggcgc ctaccgggac gacaacggcc agcccgtcgt 360
 gctcagctgc gtgcgcgagg ccgagcgccg gatcgcgggc aacctcaaca tggagtacct 420
 ttcgatggga ggcagcgtca agatga 446

<210> 51330
 <211> 311
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-016-Q1-K1-C4

 <400> 51330

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 agaacaaatc acacaagaac aatctgctga ctgctataat atcttgacca atgactgcca 180
 ggaacatttg gctatgaagc acttcgtctt aataaatcaa ctggacttta aaggttgact 240
 acatgatcct aacatgtgac cctttgatct ctgtgacacc aaaaataagc ttaacaactt 300
 caaactatat g 311

<210> 51331
 <211> 405
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-A7

<400> 51331

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tcttgccctt cagtgttcat gttgcaaaac tttgccctgc tggctgtgag ggatcagtga 360
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<210> 51332

<211> 442

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-016-Q1-K1-A8

<400> 51332

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aaataatacc agacatggtt atggtggaaa acaacagggg aggaccactg ggacgacata 180
cctttccaga agatgaacca actttcactg ggcgatgatg ctgttggaaat tggaaaccat 240
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gatggtgaag atgacctgga ttaaagttat tctagattca ttttttattt tgcactattg 360
gtcttcacag agcctgtatg gttggnnggc ttgatttggc aaagctgtac tgatatatcc 420
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<210> 51333

<211> 280

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-B2

<400> 51333

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ctccctaaca atcatcggct attctattct tcaaactgtc aatattctta tagcgggtca 180
tgtaccctat tctcatcatc catcgatgca tctcagcctc ttatgatata ttgtactgct 240
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<210> 51334

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-B4

<400> 51334

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cgacgagatc gatgctgtc tggatccaca ataccgaaca gcagttggaa gtatccttat 180
tgtttgttct agtgtctagc tatgcacatg atcaatgcct cttctttgtg tgtcaatagt 240
cctgctgctt tccttaagtt tcattccaga tatgatccgc cgtctagctg acatggctga 300
cactcagttc attgcgacca catttcggcc agagattgct aaagtggctt gatagatata 360
tgccgtgaga cacaagaata gggtagcaa catcgacgtg gtgtccaagg aggaggccct 420
ggacttcacg gagcgtgatc aga 443

<210> 51335

<211> 347

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-B6

<400> 51335

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tgtggtggat gcggcagcgg catgctcatc gaaggctcca aggccaacaa agccatgtcc 120
ggcggctgtg gctctggttg tgggtggttg tgcggcagcg gcatggctcat cgaatgctcc 180

aaggccaaca acaccatgtc cggcggatgc ggctacgggt gcggcggagg cggcggctgt 240
 ggtagcggca tggctatcga aggcttcaag gtcaaccacg ccaagtctgg tggctgcaac 300
 tctggctgcg gtggtggtgg ctgcagcacc ctgtgcagct ccagctc 347

<210> 51336
 <211> 164
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-B8

<400> 51336

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 aaaaaaaaaa aaaaaaaaaa aaaaaaacaa aaaaaataat aaaaaaaaaa ataaaatcaa 120
 aaaaattcaa tttaaattgc cgtaaatta caacaataat acat 164

<210> 51337
 <211> 434
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-A6

<400> 51337

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 tgggtcccaga ggctccgtct cgtagagatt tatgatgtta agagattgca attgcgatat 120
 gcgacatctt taattggtgg cccgtcaaca ttagccactt ttgcggctgt gtatgcactc 180
 tttggaccaa ctttccttgg catatatgac aaagagaggg gaatttatac gctgttctac 240
 ccagggtttat ccttcgcatt ccctattccc agccagtata caaatctatt cactaatgga 300
 gaagtggcag atttgccact ggaattccca gatggtacaa cccctgttac ttgtcggggt 360
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 atggtacctg cact 434

<210> 51338
 <211> 434
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-C3

<400> 51338

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gagggtttctc atgagtgggc attggtcaac aagcagaagc ccatatggat gaggaagcca 120
gaagaaatca caaaagaaga atatgctgcc ttctataaga gcttgacaaa tgactgggag 180
gagcatctgg ctgtgaagca cttctctgtg gaggggtcaac tggagttcaa ggctgttctc 240
tttgttccta agagggcccc ctttgatctc tttgacacca agaagaagca aaacaacatc 300
aagctctatg tgcgcagggt gttcatcatg gacaactgcg aagagctgat ccctgagtgg 360
ctgagcttcg ttaagggtat tggtgactct gaggaccttc ccctcaatat ctctcgtgag 420
actcttcagc agaa 434

<210> 51339

<211> 428

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-015-Q1-K1-H11

<400> 51339

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tcccgggaat ggagtgcgta ttgggcgtgg ttggccgcga cttcgcgctg gtggcggccg 120
acacctccgc cgtgcagagt attctcgtcc acaagaccga cgaggacaag gtgatggtgc 180
tcgactcgca aaagctgatg ggcgcttcag gggagcctgg tgatcgggtg caatttacgg 240
agttcataca gaagaacctt cacctgtacc agttccgga caccatcccc ctctcaaccg 300
ccgccgncgc caacttcaca cgcggcgaac tcgccacagc ctttcgcaag aatccatata 360
tggtcaatat tattcttggg gggtatgata aggatggttg tgctttcctc tactacatcg 420
actacatt 428

<210> 51340

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-H12

<400> 51340

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ggctggatcc atactagcta cctgaaggat ctgtggccag actcgcggta cacttacagg 120

cttggccaca ggctaataa tgggacccgc gtctggagca aatcatacag cttcagagca 180

tcacottacc ctggacaaga ttctttgcag cgagttgtca tatttggaga catgggaaag 240

gcagaggcag atgggttcaa tgagttcaac aacttccagc caggttcaact gaatactacg 300

taccagatca cgagtgcacat agaaaacatc gacatggtgg tccacatcgg ggacatctgc 360

tacgcgaacg gctacttgtc tcagtgggat cagttcactg cacagatcg 409

<210> 51341

<211> 347

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-H2

<400> 51341

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ccatgagcaa caaccggacg gggcgactgg acatcggcac ggattggcgc ctgcacggcg 120

tggcgcgcgg ggtgctggcg cgctacctac gccgcgtgcc ggtgcacttc gtcgacatca 180

cggggctgtc ggagctgcgc aaggacgcgc acaccttcgt gcacacgctg cggcagggga 240

agctgctcac accggagcag caggccgacc ccaagaccta cgccgactgc atccactggt 300

gcctaccggg actccccgac acctggaacc actttctcta cgcgcac 347

<210> 51342

<211> 338

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-H4

<400> 51342

cacactcttg caccgagcta gcagccatag atgtgtgacc aaacacctgg ctctttgcgc 60

tccttgttct ctttagcata ggcattggga tggccaccgc tgctgcaaac cgcaaactgg 120

gttatggccc cgggggagga ggtggcggtg gtggtagcgg tggcgggtgga ggcggtggtt 180

acggaggacc aggctatggg tccggatcag ggtatggtga gggcggcggc agcggagggtg 240
 ctgctggagg gtatggacat ggtgggtggcg gacgcctcgg tcttggtgag ggtgcgggag 300
 ctggtggctc tgggtatggg tccgggcaag gatctggc 338

<210> 51343
 <211> 374
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-015-Q1-K1-H5
 <400> 51343

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 tctgtcagta ctaatgatga gtgttaagaa caacaccag gttctcatca attgccgcaa 120
 caacaagaag ctgcttggcc gggttcgtgc ttttgatcgc cactgtaaca tgggtgctcga 180
 gaacgtgcgg gagatgtgga cagaggctcc caagactggc aaggggcaaaa agaaggctct 240
 gcctgtgaac aaggatagat tcatcagcaa gatgttcctc acgggcgact cggtcatcat 300
 cgcgctgagg aacccaagt gacagcccaa ccggaagcca tgtctatgtt gaaaactgta 360
 gcttatgatg tatg 374

<210> 51344
 <211> 189
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-015-Q1-K1-H6
 <400> 51344

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 gatgagtagc tcatgtgtcg tattcatagg ttaagtatat ataggtccta gtatataatt 120
 ttgccgcggc ggtcacatgt catgcatgga acttacttaa atgtgtctcg atttatttgt 180
 catctccct 189

<210> 51345
 <211> 399
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-015-Q1-K1-H8

<400> 51345

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ggactcgacc atcggcggtga cgctgctggg ccccgacggc acgggcatcc ggatccggga 120
cctggcgggg tggggcggcc tcatgggcgc cggccacgac tactacgagc gcggcaacct 180
ggacatcttc agcggccggg gccctgcat gagccaggcg ccctgcgcca tgaacctcac 240
ctccgacggc accggcgcg caccagggctg gtactgcaac tacctcgagg ccacgggtcac 300
ggggccccac ctcggtgctg cgcagcagct cttcaccgtc gagcagtggc tcgccaccga 360
cgctcgggcc taccgntctg acgcggctgt cgacaagtg 399

<210> 51346
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-H9

<400> 51346

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gagtgtgcaa ccctggacgt attcctaaaa acaccacagg cgcaggcctg tgccgaggac 120
attgccatat ggatgaagaa atatatatcc ctacaggggc atgagttctc atattagttg 180
tagcaaaaac catgcattgt gaaataggcc ctttgcaggg aagcgtcaat gtgttctttt 240
caactggttg aaagaaggat gttggattgc agtcgggtaa accagctagc ttaatgctga 300
gtactgagtc ctttagggcc tgttcggttt caccggaata gaccaagatt tattccagct 360
catcaaaatc tatataaatt agagaagtaa tccggctagg aatcaatccg aggctcaaat 420
ccataac 427

<210> 51347
<211> 255
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-A12

<400> 51347

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acgcggaacct aatcaccatt gacaactcgc tgttctacaa gaagctgac tccaaattcc 120
tcgaggtcct caagtacatc gctttcatcg accttcgtgt ttacgacatt cactcccca 180
ctatcccgtc cgctgaggag atcgtttacc acatctacaa gatgctaacg gtgcttgaca 240
ccaacattct ctggg 255

<210> 51348

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-A2

<400> 51348

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aggcgatgct gagacaaatg gaaatggaaa ccctgttcaa caaagacaac agagaaggaa 120
gcaatccaac cggaatcag ccaggcgctc gagaagcaga aaggcggctc acttgaatga 180
actggaggca caggtagcac aattaagagt cgaaaactct tcgctgctaa ggcggcttgc 240
tgatgttaac cagaagtcca atgaagctgc tgttgacaat agggtgctaa aggcagacgt 300
cgaaacctta agagcaaagg tgaagatggc agaggactcg gtgaagcggg taacaggcat 360
gaacgcattg taccctgccg tgcagatat gtcttgctc agcatgccat tcaatg 416

<210> 51349

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-A3

<400> 51349

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aggattcaaa aagcaaaagc tgaggcagca attcagaagt taatgattaa gatggagaag 120
aaaggatcat ctctgctgga taagattttg aacacctca agtctgctca gagaaaagcc 180
caggtgatgc ttgagcatga gcttgatgca gtaacagcaa accaagatgg aaaaggctct 240

aggaaggcaa aaaagggagc acagcgtagc aagaatggcc aaatcagttc cctgagtggc 300
 tgcttcactt gccatgcttt ttgatacatg taattccaaa actgagaatc aggatctgag 360
 aaattccttc gtactgtcta catcacggtc atgtttctca catcgaaatc taggtgaact 420
 tcagatatct atcagatgtc agtacat 447

<210> 51350
 <211> 411
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-016-Q1-K1-A4
 <400> 51350

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 taccttgcaa cttgataagg aagcagacaa ggaattcatg tccagcttgg cttcccttct 120
 taagactatt gaaagggcga tccagggttca tgaagatttc tcaggtgtcg tgaaccctgc 180
 agagttatta gaatgtcact tcacagggtt gaacgctctg gaaaatgaat atgggtctgg 240
 tgaaattggt aagcagggaa cagaaatagt tcagagagct gtcaccaa atccagtc 300
 cctacatgaa gcatacaaag ggaaacatgt tgggctggta atatccacaa atgacgctcc 360
 atcatcctta ggatccataa ttgacgcacc atcttctactg cacatttcaa g 411

<210> 51351
 <211> 273
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-016-Q1-K1-A5
 <400> 51351

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 tcctataagg aaaaaaccaa gaaaaaaaaac acaaacatac aacaacataa atagggccaa 120
 agggcctcct aaatccaatt taatgtccgc ccccttacia ctttatacct ttaaaaaatcc 180
 ctgacttact tcaaattaac tggcttgcac tacacccac tttaattgga aaaaccctta 240
 cctaacccaa cttagtcgac cgactttcca aac 273

<210> 51352

<211> 401
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-015-Q1-K1-H1

 <400> 51352

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 cccgctaaac ccaccatcac caccaccacc aaaacgaccc cggccccaag acccgcccgc 180
 tccgcccatt tccatgtcct ctccgccgtc cgctgcctcc gcctccgcct ccgcgcgtcg 240
 tcgcagcatc ctccgccttc gccacccccg cggtcgcggc ggccggatta cgtcccgaac 300
 cgcacgacg accccaacta cgtgcgcac ttcgacacca cgctgcgcga cggggagcag 360
 tcgcggggcg ccaccatgac gagcgctcag aagctcgctg t 401

<210> 51353
 <211> 440
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-015-Q1-K1-F3

 <400> 51353

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 gaagaggaac cggggagcgg cagctgcagc ggccgagggc ggagcacgcg aggcattgat 120
 agataccaaa gggtagagaa gcctcggaat gacacgcca tcagccagaa tgagatcaga 180
 atcactactc aggggaggat gaggaactat atcagctatg ggatgtcgct gcttgaggaa 240
 aatggacatg atgagattag tatcaaggcc atgggacggg ccataaataa gacagttatg 300
 gttgttgaat tgatcaagag aagggttga ggtcttcac agaacactgc tactgaatct 360
 gttgatatca cagacacatg ggaaccttt ggaagaagg cttttccca ctagagacaa 420
 ctgcacctgt gtcgatgatc 440

<210> 51354
 <211> 368
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-F4

<400> 51354

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ccttacttct cagagtgcac tacatctgag gatttggatg acatgaatat tgagattatg 180
aggaacactc tctacaaagc atatcttgag gacttctaca aattttgcca gaaactaggt 240
ggtgcaacag ctgatatcat gtgtgatctc ctttcatttg aagctgacag aagaactggt 300
aacattacaa taaatagtat tgggtactgac ttgacaagag atgaccgctt gaagctgtac 360
tccaactt 368

<210> 51355

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-F5

<400> 51355

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ccaagggcgg caacgagcag gggggcacc gcaccttcgg cccctcccag aagttctcct 120
cccgcgacct cgccgcgcac acctccctca agccaagaaa agacggtcaa cagacccaag 180
aggagttaca gaagaggaat ctgagggagg aacttgagga acgtgagcgc aagcactact 240
cttccaagga taagtcctat gccgaagaaa gagaccggcg gaaaagctct agccatctac 300
tcttagaagg ttcaaagaga gagacagagg ataagatagt tccacgagaa atcgatgctg 360
atgactccga tgtggagcct aaaagcgatg acgagagcga tgaagatgat gatgacgacg 420
aactgaagc tctaata 437

<210> 51356

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-F6

<400> 51356

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tgccggcgga gctggtggcg gcgggcagcc ggacgccgtc gcccaagacg aaggcgctgc 180
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acggccacct cgctactcc cacaccaacc aggcgctcct ccgccccagg tcgttcgagg 300
ccaaggacga ggtgttctgc ctgttcgagg ggggtgctgga caacctgtgt cgtctgagcc 360
agcagcacgg gctgtcaagc aagggtcca acgaggtg 398

<210> 51357

<211> 414

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-015-Q1-K1-F8

<400> 51357

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cagatggcgg cgatagcggc ggccaccacg gcggcgggcga cggtgctact gctcgcggcg 120
ctggtgctgg cggcgggacc gggcggggcg cgggcgcagt cggcgtcgcc gtcgagccag 180
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ctgtgcgtgg cgctcagcgc ggacccggcg tcgctggggc tcaccgtcaa ccgcacccgc 360
gcgctggggc tncccgacgc atgcaaggtc acgacgcccg acgtcagcag ctgc 414

<210> 51358

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-F9

<400> 51358

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actcatcaaa tgttgtgtat gcagatggta ccatgcattt gtttccctga atggcttcaa 180

atgaaatgaa tgtttttttt aaaaatataa actgaactat gtggaagtac acatatcaca 240
aacacaagag atgctaaagc atttgactc ttatctgacg aggggtattgc aaaaggagtt 300
aggaggataa cagtcgtgac tgctggatgt gccacccagg ctatggagtt ggcataatct 360
atcgattctg atatcaataa agcatcttag ttggagggag ctttgtttga aaagaaaatt 420
gc 422

<210> 51359
<211> 165
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-G1

<400> 51359

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aaaaaaaaa ataaaaaaaaa taaaaaaaaa aaaaaaaaaa aataaaataa aataaaaaaaaa 120
aatcacaaaa aaaaattata aataacatac aattaaaaaa aaata 165

<210> 51360
<211> 429
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-015-Q1-K1-G10

<400> 51360

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cggctgtctc gcccctcact ccagccagac ctggcgcgtc tgctccgctt cgaccacgc 180
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cgcgaccgct tctctctccg cgaccagcc gacgcgctcg ctctgccggg cctnctcgtc 360
ctnccccagn tcgtcgggtgc gatctatctg ggcgagacct tctgcaggta catcagcatc 420
aacaatagc 429

<210> 51361
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-G2

<400> 51361

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ggatgggtgc cagttgcagc aatggatgct attgctaaaa tcgtcgaagt tgcaccaatc 180
atggtttatg aagttgcaac cttttatacc atgtttaaca agactaaggt tggtaaatac 240
caccttctgg tgtgtggaac tacaccttgt atgattcgtg gttcacgtga aatcgaagag 300
acgacgttgg agcaccttgg agttaaacga aatgaggtga ccagtgatgg tttatcttct 360
gttggagaaa tggaatgcat gggtagctgt gtgaatgctc ctatgattgc tgaggcttac 420
tac 423

<210> 51362
<211> 451
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-G3

<400> 51362

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taaaagcaat gatgttggga gaactaatgc ctcatctgat ggatggcagg attttgccag 180
ttttgatcaa gctcagagaa ttactaaagt tcatgtggaa ggacatgttg taaaagatcc 240
ttcaggggct gaaactttgg acttatgggc ctcaagtcac gttaatgaaa agaaccttga 300
acagataagt gaacataatg atctattcga tgactggcag gatttccaaa actccaatcc 360
acagcataca accttacaag tttcttcaaa tgcttcatta tttgatataa ccttggcatc 420
aaagcctgat gcttttggag agcaagaaat t 451

<210> 51363

<211> 282
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-015-Q1-K1-G4

 <400> 51363

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 atcggcaaaa ggaccctgcc acctcgtgca ggcgatgtcc tgttggtgaa gacatgttcc 120
 actggcaggc tacaattatg ggtccatctg atagcccata ttctgtagga gctttactag 180
 gcacaatcca tattgctcct gattattctt tcaaaccacc aaatgtggca ttcaacacta 240
 tagcgttcca ttcaaacttt aactgcatcg ggagcatttg ac 282

<210> 51364
 <211> 445
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-015-Q1-K1-G6

 <400> 51364

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 agcccatgt ggcccggtga ggcgcactct ttgaagggtg acaagggtgct gttccaaggg 120
 aagtcagact accaaagcgt tatgggtcttt cagtcctcta cgtacgggaa ggtgctcgtc 180
 ctcgatggag ttattcaggt gacggagagg gatgagtgtg cgtaccaaga gatgatcact 240
 cacctgcccc tttgctccat caaagacccc aagaagggtg tggttattgg agggggtgac 300
 ggtggtgttc tgcgtgaggt ttcacggcat tcctctgtgg aacaaattga catctgtgaa 360
 attgacaaga tggtggtaga tgtctccaaa caatttttcc ctcatTTaag ctgtggattt 420
 gaagaccctc gtgtgtcatt acaca 445

<210> 51365
 <211> 381
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-015-Q1-K1-G7

 <400> 51365

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acagtgagtt gcttccgagg gcacgcgtgt cattgggtaa ggtcactcgt tcccgaaacct 180
catacaggag ggtctggcaa cgggcctgtg actatttacg gtcacatgaat gaaccagcca 240
tctgtttatc tgtactggga ccgtccaccg tccaaggaaa tggatcctggg attgtgaatt 300
ggagtgaatg atgaacatag atgggtgctc atgttccttt taccttttag cccagcaaaa 360
aggttcaccg tctcataatt t 381

<210> 51366

<211> 326

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-G8

<400> 51366

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gaggcaaagt tggccttggc cattgtaaag ggagagaagg ttaagaaaga gaggaaagtg 120
tatggtttgc cagggcagaa gcatgacct cctgaagaaa gggatccatt gaggatatct 180
tatgaatcac tctatgagca ggtccccacc agtgacatgg ctgcaacctg gttgatggaa 240
tggggtttgc tcccgggtga tgtggctaga aatgttttg agaagaaaca aggtcagaaa 300
gttaagtcac cagtcaaagc aattgt 326

<210> 51367

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-G9

<400> 51367

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cagcaaggct ccccgggtgtg ccaccttct ccattagaac catacatgac aaccacagct 120
gtgtcgggat caaccatctt ggccatcagc aggcacatgt tcagtgggtt gcgaacactg 180
tcgaagagag gctacgtgag aaccagaaat acaagcctaa ggaaattttg gaagaaattc 240

acaaggccca tggcatcacc ctatactaca agcaagcttg gagaggtaag gagcggatca 300
 tggctgcggt tgcaggggtct tttgaggaag gataccgtct cctgcctgag tactgtaggc 360
 aggtggaaag aacaaatgca ggaagtatag ctcgagtgtg tggaaacca gatgacaatt 420
 gcttt 425

<210> 51368

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-F2

<400> 51368

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 cttgcagact acaatatcca gaaggagagc accctccacc tgggtgctcg tcttcgcggt 180
 ggattattaag ccatcagtcg ttgaagctgc tgctgtatct gggttatcta gtgtctctgc 240
 cattgcccag ggatgggtgt gtctttcaaa gtatttgtat ggtttgtgtc gtgagtcgtg 300
 actgagctgg tttcatggac cagttgtgtt ctcgttacc aaaactatcg tgcgaccgca 360
 tatggcttaa tcatgaataa atgttgtttg aatttaaac 399

<210> 51369

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-D6

<400> 51369

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 gcaagatcct ggcgcacttc cgctcgtcca gctccgacat gaaggagctc gtgctgtccc 120
 tccccaggac ggcgcagtct gactccggcg aaaccgagac cgagccgtcc gtgaccgcca 180
 aatcccagac cgagccgtga gtgactagct cccggtcgcg gtctcgttct ctcatgtata 240
 gctgctacat cccttagcta gctgcacaca gagcgaggct actgtatagc tactacgacg 300
 aagaagtcgc cgataagcaa gtgtgcagtg caggcacgcg tccatcgatc ggccataagc 360

ggctgcagca gtcggtcggg cggtcgggtcg gcgtggatta aatgatcgga catatacgaa 420
 tgggtgcacac g 431

<210> 51370
 <211> 400
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-015-Q1-K1-D7

<400> 51370

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 gggttcttctt caacctgctt tgggtggaagg gggccatttt ggggtgcatga gtgggaaact 180
 catgggacct gtgcttacct tgaaatacag gatgaatatg actacttctc cacagcactg 240
 tatctctaca gcaaatacaa tgttacgaaa gctctgagaa aagcacgtat ccggcctaca 300
 agcggcagaa aatacgccgt tggccatatt gttgccgtca ttgaatatgc gntnggtgca 360
 atgccgtcac tcgtctgtaa gaacgggtca gttcaagaac 400

<210> 51371
 <211> 330
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-D8

<400> 51371

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 cctgcacctt caggcgctgc atccagtact gcgtcagcat cgggctgcag cccaaggggt 120
 tctgcaactc caagcccaac atgcaggctt actgctgctg cgtcatcccc tagcatcata 180
 gctcctcgtc aacacaccta aatctgcagc cctgctagag aagatacgat ctctatgcag 240
 attagctgca gcgatata tagatggatg aatcgtgcaa gcggttgaac tatgggtgctg 300
 gaatctgtaa tatatataag cggatcatcc 330

<210> 51372
 <211> 361

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-015-Q1-K1-D9

 <400> 51372

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 tgaagcgggt ggctactcaa atgagagcaa aggtagcgag ggcaagaatg atgttgtcta 120
 tcaatcagca acacccgtca tggattcgaa ctcatccaat cacaggaatg tgccaagatc 180
 tgatgtgaaa aacagcggcg tagtttcaca ctctagagcc tggaagccga aaaccaattc 240
 ccatcctcag gacagctcag acggcaagat tgctgttgac gggcaagttg atttctcatgg 300
 tggtaggctt gagatgaata ctttcaaaag atctgatata attacccatc tagtgaccag 360
 t 361

<210> 51373
 <211> 55
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-015-Q1-K1-E10

 <400> 51373

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<210> 51374
 <211> 452
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-015-Q1-K1-E2

 <400> 51374

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 tgggcgggtgc ccttcgaac ataatgccat ccagggccat tgcattgctt gcttcctcaa 120
 cagatctcat ctccacaaaa gcaaatttct tgtcatgatt tatgtatata ttgagaacag 180
 catcacctgg accagcagtg tttcccccaa tagcagccat gacttgatta aagtaaattg 240
 ccactgtctg ttcgttagca gatggaggaa ggccaccgac ataaacacgc cgagcatgac 300
 gagtagcctg ttgagtcatt gcttgtggct ggatgacaag gggattgaac tgcccagcaa 360

caccgaaagg gagcatgttt ggaaacatgc caccaatgtt gtgaagcgaa gagcctgggt 420
actgacctgc agggcatcaa taaatttcta gt 452

<210> 51375
<211> 245
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-E3

<400> 51375

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tcgcgcctgc tttggtggag gtggtgagcc tagtgggagc acatcttgct tcttcctgcc 120
ccatctccct gtctagccta agctgcatat gatcgctcctt cgtgatttca acacttatgt 180
tattcacaac accattgctc ttgatcccct tttcagtaga gtctaagaat ttgacaattg 240
caatt 245

<210> 51376
<211> 261
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-E4

<400> 51376

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ggggcttggt ctactggttc tgaaccaaac cgttcaccag caaactttcc tgatcctcta 120
ccaccatcac cttcaatgaa atatgacgag attcttgctc catctcatta gctgatcaag 180
caatcatcta tctgcatgc tgttattgaa ccaagtgcta ctgaaattat caatctcatg 240
catagcctac atgaatgcta c 261

<210> 51377
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-E6

<400> 51377

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 ggtttaacgg aagcgaacca gttatctagt ggagttgcct cttcaagct actctaagt 120
 cttttctatt caagtctagc aatggcggca ccactgaaaa aatcccatcc ccagaagaac 180
 agcgagaaaa aataaatgaa ttacgcaagg agcttgggtga acactcatca gcagccatta 240
 aagacttctt ttcatgatgc tcgttagcga gattttcttcg agcaaggaac tggaatgtgc 300
 agaaagctag taaaatgatg aaagcagctg tgaagtggct gcttgcattc aaacctgaaa 360
 acatctgttg ggatgatatt gcagaggaag cagagactgg aaagatttat agagc 415

<210> 51378
 <211> 414
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-E7

<400> 51378

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 taaccagggg aaaggagctc aaccgttttag caggaattag tggaacatgt gattttgtca 120
 aggcgggactt catgaagatg ccgttcgatg acaacacttt tgatgctgtt tacgccattg 180
 aggcaacatg tcatgcacct gatccagttg gttgctacaa ggagatatat cgtgtgttga 240
 agcctggcca gtgctttgcc gtgtacgagt ggtgcattac ggatcactat gacctaaca 300
 atgcaacca caaaaggatc aaggatgaaa ttgagcttgg caatggcctg ccagatatca 360
 gaagcactcg ggaatgtctt caggcagtaa aagacgccgg gtttgaggtt gttt 414

<210> 51379
 <211> 391
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-E8

<400> 51379

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 tgctggagat gatggacgac ggaggaggag gcgtgcagtc gcagggcgct aaccgggact 180

gccccaacgc cgccaacccc ttccaccgct gcgcgcgcta ctgccccgtc cccgccccgg 240
 cccccaccaa agccgcgcgc gccgccgtgc gcagcaagcc gtctccgcct cgtccgaggg 300
 cggctgcggt ggctgcgcag aacgggacag ccaagcacgg agacggcgct gcgcgtgtcg 360
 ctcccgctctt cgacgccgat gacgacgacg a 391

<210> 51380

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-F10

<400> 51380

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 ttggcttctc gagatggaaa gattgtgttt gagagtacac ttgacgcaag actagaagtt 180
 gttttccgca agaaattgcc agagatccgg aagcttcttt ttggccagac tgcagcctaa 240
 tcgactcatc tgccgatggg acggctgctt ctatgtaatg gttgccggct gcacgcctgc 300
 actgcagcca taaggaactc cgctgtttt tgtcaaattg attgtttaag gtattcatcc 360
 cctatgtaca aactacctat tggttcatta ttgtcgccga gagcaccgac tgtttgtact 420
 ctgttttgc 429

<210> 51381

<211> 448

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-015-Q1-K1-D5

<400> 51381

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 cccacccac cgctccctccc ctgcgtccgac tgcgcagacg tgctcgtggg atcctccgcc 120
 ccctccttcc cctacatccg cggctgggtc ttacctccg actcgggcgc tgctatgggt 180
 tctgtagagg aacatctcca acccaaggtg tgcgtgcaga cgagcacctc cgcggggctt 240

gagcagatcc tgccctggct cttctatcac aaggtegtcg gcgtcgcgca gttcctgctc 300
 ttcgtggagg gcaagggcgc gaaaccaat gtcgcgggag tcctcgagtc aattcctggg 360
 gtaaaagtgg tgtacagaac taaggatctt gaggagcggc aggcacggag tcgaatctgg 420
 aatgagactn ggctttcagg atttttct 448

<210> 51382

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-F11

<400> 51382

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 tttagtgcga gctaggccaa ggaagctagg gcttgggtacc gcatatttac atggactaaa 120
 gcatgcctta ggggaatttg tcattatcat ggacgcggac ctatctcacc atctacaata 180
 ctagccaagc ttgattagga accataagga aactggagct gacattgtta ctggcacacg 240
 ttatgacaag aatgggtgggtg tccatgggtg gaatgttatg ctcaagctga ctgcgagaag 300
 tccaaatgtt cttgcacaaa cgttactgca gcctggagct tcagatttaa ccggatcatt 360
 taggctatat aagcgagatg tcctggaaga cttaatctcc tcatgtgtca gcaagggcta 420
 cg 422

<210> 51383

<211> 433

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-015-Q1-K1-F12

<400> 51383

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 ggtagaccat gaagtgaggc acatcttcaa gacacgatct aaaattgtct catttatccg 120
 aaagtttctt gatgaccgtg aatttttggg ggtggagact ccgatgatga acatgattgc 180
 tggtggagca gctgcaaggc cttttgttac acatcacaat gaattaaaca tgcggctttt 240
 tatgcgcatt gtcctgaat tatatctgaa agaactggtt gttggtggat tggaccgtgt 300

ttatgaaatt ggaaagcaat tcaggaatga aggaattgat ttaacacaca atcctgaatt 360
 cacaacttgt gaatnttata tggcgtatgc agattataat gatttgatgg agcttactga 420
 aaaccatgtg tca 433

<210> 51384
 <211> 435
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-C11

<400> 51384

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 ggcagcatga ctgtttactt ctttgcaaag gaagagctca actgcaatct aacaacagtg 180
 aaagaagacc taattaagcc cattactgtt agcttcaaag agggctcttg tcaaaaattc 240
 aggcaacctt caggaacagg aattgacttt tcagtgtttg aagaatcaga tctattaaag 300
 caaggggaca tggatgtata tccacttgca gttaaagctg aaacaacatt gtctgttgat 360
 caccaccag aaagggatga ccaaagatg attactacta actcacagat caccaggcc 420
 gtttctgaaa agaaa 435

<210> 51385
 <211> 430
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-C2

<400> 51385

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 ggaagccatt atccaatccc taaactcagc tcgttttgag caacataata agtatcaagc 180
 ggagcttaga cgcttcgagc atgatctgaa tgttatggct cagttgggtca ctacatacaa 240
 aaaagcttta aaacagaccc gggcttcttt tgatgagtac aggaagaagt tcccttgcaa 300
 tgttcctctt tatggtgatg ttgcttgggg cggtgggtct gttcttagtg tgaggagatt 360

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 ttgaaaagat 430

<210> 51386
 <211> 295
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-C4

<400> 51386

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 ctactctatc tatcttgctc actactcatc tccatcactt caaactaatt ctactatatc 180
 catacttatac actttatatc aacatatatt aaacctttct ttcatcatca tgcacatgta 240
 tacatacatt tccgaatttt atatccgttt gacataagct ccttactttg accac 295

<210> 51387
 <211> 130
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-C5

<400> 51387

aaaaaaaaa aaaaaaaaaa atagaaatta aaaaaaaaaa aaaaaaaaaa ggagaaacgg 60
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 tgcctaattg 130

<210> 51388
 <211> 431
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-015-Q1-K1-C6

<400> 51388

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 atagaaggct tgatttggtc ccctaaagca agtgattcaa atgatatgaca tgatgattgg 240
 gctttcgagg agggaccaca ctctgactnt actggggccaa attgtgggag tacagcatgt 300
 gtagcattag tcagaaatag gcaactcggt gtggcgaatg ctggtgactc ccgctgcgtc 360
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<210> 51389

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-C7

<400> 51389

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 gctgcgtctg gtggtggtga aggggagaaa ttcgtgagat ctgttccgga tcaggcgtgc 180
 gagctcggga atcaggggtt tcacacatag cttcgtcgat ttgaatttga tgtactaatg 240
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 ggctacagca ttgaggacgt tcgacctgcc ggaggcgtga agaagttcca gtctgctgct 360
 tactccaact gcgcgaagaa gccatcctga tttccctttt gctttctcat tctagtagtt 420
 taggatttct tttctgaca 439

<210> 51390

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-C8

<400> 51390

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cgatctgtct tgttcgctgc tgttggtaca gcaggacaac gctgcactac atgtcgtagg 180
ctgattcttc atgagaacat atatcaaacc ttccttgatc agcttggtga ggtatacaaaa 240
caagtccgaa ttgggggatcc gttggagaaa ggcaccttac tgggaccact gcacactcct 300
gcttcaaaag agaacttttt gaaaggcatt cagactatca aatctcaggg agggaaaatc 360
ctttttggag gatctgccat tgaatcagaa ggaaactttg tgcaaccaac aattgtggaa 420
attacacctt ctgcaccagt tgtg 444

<210> 51391
<211> 374
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-015-Q1-K1-C9

<400> 51391
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cgacttcgac gccacttcg atcgctctt cgttccccg gacgccgct ccgacggcaa 180
ggtgaagctg ctgctcttcc tggccgaccg caagcctggc tcttccctct cctgggtgcc 240
cgactgcaac gtggcggagc cggatgatcta cgagcggctg gaggcactgg aaggcaagga 300
cgccgtgctn ctgcgcgct acgtcgggga caagcccact tggcgcgacc cggcgcaccc 360
gtggaggggtg gacc 374

<210> 51392
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-D1

<400> 51392
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aagggtgtcca atagggccac acattggtgt tatgcctgtc ggcggccaat tcgtctccgt 120
gggcaggata tcgcatgccc caactgcaat gatggtttta tccaggaaat tagtgagatg 180
ggtggcatat tgaacactta tgggctaatt gaaccagact ttgaagagcg tcgagctaga 240

agattcggaa tgatggatgc catgtcttcc cttatgcggc aacggatgga agaaatggga 300
agagatgggt tgtttgatat tcgtggtaga caaggaacag gtactgaata tggaaagagg 360
ccaacttgct gttctacatt ggtatttggc ggcattcct 399

<210> 51393
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-D10

<400> 51393

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tggttctcgc tggttgccgg gagctgggat cgaaagtact gctgttggtc gcacggcgag 120
gcggcggcgg agaccgggtca gaaggaatgt cttcggccca aatcgcgccg gcagatcatg 180
tgtgctatgt gcactgcagc ttctgcaaca cagttctcgc ggtgagtgtc cgggggaata 240
gcatgctcaa catcgtgaca gttcgggtgtg gacactgogc aaatctactg tcagtgaacc 300
tgagagcact gatgcactca ctcccagaac aagatcatca gctccaggag aacatcaagg 360
tccatggcat caacggcact ttgcacgatg atcatcagta ctgcggccat ttggatcagc 420
tcggctcttc 430

<210> 51394
<211> 364
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-D2

<400> 51394

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cgagtgtgaa gaactccttc aagctgccgg ccaccgacgc caagcccaag gccgccaagc 120
ccaaggcacc caaggccgcg cccaagccca agccctcgcc gaaggcgaag gccaagaccg 180
ctgcgaagcc caaggcggcg tcgcccaaac ccaaggccaa ggccaaggcc aagcctgtcg 240
ctcctgccgc cgcgtcgccc aagccccgcg ggcgccctcc caaggtcgtc aagaccttcg 300
ccaaggcctt ccccgtaag gcagccaaga aagcggctgc tcctgccaaag aaaggaaagg 360

cagc

364

<210> 51395
<211> 219
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-D3

<400> 51395

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gaaaagggtga aattttaaac tttaaataata ccttaccaaa attctaaaac gttctgccgt 120
tatactacat ccaatcttac gtcatacatc catccaatgt catacaccat ttttattgcc 180
acctaattta atttatttaa cctacattta acaactcaa 219

<210> 51396
<211> 363
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-D4

<400> 51396

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gagaatatgg tatgacctca gtcaccgaag gcatcgacgc aatcgcaaca acccggtgg 120
ttgtcaccgg agatgtgacc aacaacttca aacatgcctt gactggccgc gctttcaacc 180
gctccttcag cgggagcggg gcatcaatgg acatcgtcgt ctccagtgtc agagcttacc 240
tgaatgccct gaacaagatg tgtagctttg ctggtgccgc gaaagccagc ggcgaggtac 300
ctgagagtgc aagcgtccaa agcgcagagt gagcttgccg accatttggt tctcatgtgg 360
act 363

<210> 51397
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-C1

<400> 51397

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 tgggaccaaa tcatccatgt tcaattatcc gccttcggcc taatttggat actcacatcc 120
 atctggaatc ctggaatttt ccctgggtgg gtaatccatg gggatgacat tttagtcttt 180
 atagggggtt ttgcatccct gggttttgct tacccttctt cgaaagtagg cattagtggc 240
 cagagcgcca ggccatgcca attttctttt ttctgatgca tatgttcttt tatcagtgat 300
 cgggttgacg ctgggcgtgc acttgatctt tcagtgtatt ttggtgattc tggaagcaga 360
 taggtactgc acaaaattgg agctgaaaga gcttgtgctg ctgcaattac tttg 414

<210> 51398
 <211> 324
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-A4

<400> 51398

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 acaggatgct ctaacatctt gaatcctatt gattgataaa atcatttgca gctcattaaa 120
 aatactccaa ttcatgaga ggctgacact aaagaaactt tccatgaagt tcaatctctt 180
 cattaaattc ctccaaaatt cctatgtaac aagccattac ataggaattg cacgagattt 240
 gtcaaaaacc aatccttatt cccaacgtg ttattcctat attgtttcaa tcctatactg 300
 atgtttggat actacattgt gaat 324

<210> 51399
 <211> 448
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-A6

<400> 51399

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 gctctaacat cttgaatcct atggattgag aaaatcattt ggagcacagg aaaaatacgc 120
 caattcgatg agaggctgac acgaaggaaa ctttccatga ggttcaatct cttcagtaaa 180
 ttctccaaa attcctatgt aacaggccat tacataggaa ttgcacggga tttgtcaaaa 240

cccaatcctt tttccccaag gggttattcc tatagggttt caatcctcta ctgggggttg 300
 gatactacat ggggaatcga ttggtttcct gccctggaat cagtttcgtt accggcaaata 360
 tttgtgttct cgctctgacc agccgcgaag gccataaca tcttccaaca aggatctact 420
 caacagtacc gcgagctgtt tgggtgagg 448

<210> 51400
 <211> 406
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-015-Q1-K1-A7
 <400> 51400

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 ctccaccaca tcttcggaaa ctgcaccaca gagcatgcca cagcgaacgc cttgatcctg 120
 tgcgagaagg caagccatct agagggtcca gtagctgagg gcagccatga gcctctcaag 180
 ggaggaaagc cgcacgttgc tgacttcgtt catggacctg atggcctcgg gaacgtagat 240
 ctccctgatc ccactatcaa gaaagtggag gaaagtgcta ccgacttctt ggttgataag 300
 gtctcgcgat ttcttgaga ggtctctgtg ctgcgcttgg gtctctgac aaacatagca 360
 ttggccatca agaaggatcc ctcatcgtg aaaaacgtta agaaga 406

<210> 51401
 <211> 428
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-015-Q1-K1-A8
 <400> 51401

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 ctccaatccg cccggccgcc tccgctgtt gccactagct aggtgatcga tcgaatggac 120
 tgcggtggcg cgtgcagct cccgctggg ttccgcttcc accccaccga tgacgagctg 180
 gtgatgtact atctctccg caagtgcggc ggctgcccgc tcgcccgcgc ggtcatcgcc 240
 gaggtggatc tctacaagtt cgacccatgg cagctcccag agaaggcggt cgggtggggag 300

aaggagtggt acttcttctc gccgcgcgac cgcaagtacc cgaatggctc caggcctaac 360
 cgggcggccg ggacagggtg ctgggaggcc accggcgccg acaagccggt agggtcgccc 420
 ngccccgt 428

<210> 51402
 <211> 215
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-A9

<400> 51402

gccggtttta ggagccacag tagtgccctt tagctggtat ttataccgtg accgtagagc 60
 tgtctcaaat tcgcagcgga aagatttata gataggctct tgtttcggat tttgtagctg 120
 gaataaatga ataatacgtc tagaactgat tttctgtcaa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa gaaaaa 215

<210> 51403
 <211> 444
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-015-Q1-K1-B1

<400> 51403

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 gccggcttcg ccaagcgcgg cgaggactac ttctcgtca agcccgactg cgtccgcgtc 180
 cccggggacc ccgcacgggc gttctcagtt ttcgccgtgt tcgacggcca caacggcgtg 240
 tcggcggcgg tctatagcaa agagcatctg ctcgagcacg tcatgagcgc gctgccgncg 300
 gacatcgggc gcgacgactg gctgcaggcg ctgccgcgct ctctcgtcgc cggctttgtc 360
 aaggccgaca ttgatttcca gcgcaagggg gatgtgtcat gaaccacggc gacactgggtg 420
 ggcatcgatg gggttcacggt caca 444

<210> 51404
 <211> 351

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-015-Q1-K1-B10

 <400> 51404

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 agtatagtga gaatggggca gggagtatta gacaagggga aatggggaag ggagcgcaag 120
 gtactgatgc tgctcctgtg ttccaccagg tcgcagagaa catcgctgac tatctggttg 180
 ccaaaaacac cctcaagatc atgcccttca agctaccggc cgtcggctct tatgatgtcc 240
 gcgtgcgcat gaatgcactg acgatttgc tgcaccgatgt gcactacctt caggagatgc 300
 gcatcgcgca cttcgtggtg aatgagccga tggatgatcg gcaccagtgc t 351

<210> 51405
 <211> 424
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-015-Q1-K1-B11

 <400> 51405

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 ggttattctg tgaagcatcc aagccaggct attgttatga aaatttgctg tctgtaagca 180
 tgtgaacttc cgatgttgcc acatgctgga tcagtctgaa taagtaagta tgcagctcta 240
 ggtggtcagc tgcgtctacc acaatgagca tgaacgtatg gagaaatct tgtgaaccga 300
 ttatggctat gaattacatt ttgccttttc gaaataagaa tactggcggc gtctgttcaa 360
 gatatggttt gagcctgtgc tttctatctt tctgaagacc ggtctacttg acgctaaatt 420
 cgca 424

<210> 51406
 <211> 425
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-015-Q1-K1-B12

 <400> 51406

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 acattgaatg agctgaacca gctcgcggaa gaggcccgca ggagagccga gatggcgagg 120
 ttgcgagaag tgagcaccct gaaggggagg atggagtcag tggatgaagca gaaggggtctg 180
 gacatcgaga ccatccagca gtcctacacc gtgtgactgg ctgaccgacg acgacgggggt 240
 ttatagaggt ttctttcttct tatactatac aatctgtact aggttagcaat aaagatcaag 300
 gaaagaaccc ctatatattg gctgtggttc gcgggaaatg aatgatggtc atatttatga 360
 tgtcgggtgtg gtgcttctgt cgccaactct cgaccatact accctcaact cacccttctg 420
 atgct 425

<210> 51407
 <211> 416
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-015-Q1-K1-B2

<400> 51407

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 accttatgca ttaggagtag ttctagtcta gttctagttt agccctagtt tagtattcca 180
 atccccaaat tctccgctc tctctgactc tacgtcgatt agaggagtct aggtcggcct 240
 gcccgagcct agacaactcc taggatctct cctccccgac ggggtccctc ccgggagtga 300
 gatccaggcg ccgtcggcga tctaccgtcg cccctgcgca cgcgcggacc gtccggccct 360
 aatgcgcgga ccgtncggcc gtcaggcatg gaacccgagc ttctgcaccc agtcgc 416

<210> 51408
 <211> 363
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-015-Q1-K1-B3

<400> 51408

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ttatagtcag tgatggaaca caaggaggcg ggctgccagc agccggaggg cccaatccta 120
 tgcatacaata actgcccgtt cttcggcagt gctgcgacga tgaacatgtg ctccaagtgc 180
 cacaaggaga tgataacgaa gcaggagcag gccagctgg ctgcctnctc catcgatagc 240
 attgtcaatg gcggtgacgg cgggaaagga cctgtaattg ctgcatctgt aaatgtggca 300
 gttcctcaag ttgagcagaa gactattgtt gtgcagccca tgcttgtagc tgaaaccagc 360
 gag 363

<210> 51409
 <211> 271
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-B4

<400> 51409
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 ctgggtggtct tcctatgcct gaccgccttt ggcttcaacc gcctctacta ccgctcacct 120
 atcaccactt caacattcac atacagcttc aactccacat attacatttt accacttcca 180
 ttattactac atatctacaa ttgaaccac ttcaatcctt attctctgat cacacttact 240
 actcaactgt gctataatac acctgttctt t 271

<210> 51410
 <211> 238
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-B5

<400> 51410
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 aatcatcata tcgtagacga cgcgcagcat taaactatca atcaccgat ctggctcttt 120
 cttggccctg tactgtacta ttaatgttcc gttcttgttt ttttattcgg aattgtcgcc 180
 gtttcagtat acgtaaactc cgaggtcgat aatacagtaa tactaccaat ttaactgt 238

<210> 51411
 <211> 438

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-015-Q1-K1-B6
 <400> 51411

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 cctggatgct cgtccattgc ttttggactt ggagaagaag taggaccttt ccatgttaac 180
 gcagatggga aggggggtcca tgtcaatcct tattcttggga acaaagttgc aaatttactg 240
 ttccttgatt cacctgttgg tggttggttac tcatattcaa acacctctga tgatgcttta 300
 aaaaatgggg atgcaagaac tgccacggat tcattggcat tcttactgaa gtggcttgaa 360
 cgctttcctc aatacaagga acgcgaatth tatttgacag gngagagtta tgctgggtcac 420
 tatgttcctc aactggct 438

<210> 51412
 <211> 448
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-015-Q1-K1-B8
 <400> 51412

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 atatgctact gcacttaaga agttagacct tcagtttaca ttcctttcca cagaggatca 180
 ttgtcagata gttcaacgct gctccaatct ggaaacctta gaggtgaggg atgtcatagg 240
 ggatcgtgga ctacaagttg ttgcacagac ctgcaagaaa ttgcataggc tcagagtaga 300
 gagaggagat gatgatcaag gaggtcttga ggatgaacaa ggtaggattt cacagggtgn 360
 gttgatggct atagcccaag gctgccctga gttgacatac tngcgcatac atgtatcaga 420
 cattacanat gcagcttttag aggcagtt 448

<210> 51413
 <211> 382

<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-015-Q1-K1-B9

<400> 51413

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cagcggcctt attttatttc ttccctggct tcatcactcg tgcagcgcgc gggacgtacg 180
tgtacgttcg gtaggcttat tagcttggc gtcgtaactt agctgatctt gttgcagtcg 240
gtggacatgc tgatggggaa tccgacggag acgccgcact tgccggggat ggtggcgacg 300
gtgcccattg tgacgtctct gacgtgttg gcgaggctct tgaggcagcg gcacgccgnc 360
tggcgggtccg cgctgggtccg cg 382

<210> 51414
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-A3

<400> 51414

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agctgcgaca ttgtgcctt caacaagatc taaatttctt tgtgatggtg gcaatggtgg 180
ttggtgggca ctgtaccagc ctaatttata attttccatg agcatcttca agagtttttc 240
taaattatca tttggagtca ttacataaaa aagcactttc tatatctttt taatctcaac 300
aacttttcta tatcttggtt gcaccctgga gagctattta cgttttctat ctttagctag 360
cgagaaacct ggatgggtgg aatagaagat aactatattt agacaatac 409

<210> 51415
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-G6

<400> 51415

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tctcgggggg aaggagagag agagagtgag agagagactc agcagagagg tcagtcaggc 120

ggcttctgaa tgaagacgcc ggtggcgccct agtgggtagg cggcggaggc gttggtggag 180

tcggcgggtg tgggtagttg gatgttgctg ttttaagatga aggtgctgta gtcggcgggg 240

tgtccttcgg ttgttcttga gttggttgcg cttgcgtagt ctggtgatta tggttattct 300

gttcatcttt atattaatta ggtgtcttct tgttttaggc tgctgtggt taaagatgaa 360

gcgcctcggt cgctgaggg ggcgtcggat aattcgggct 400

<210> 51416

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-G7

<400> 51416

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atggctcttt ctcttcgct agcaggagag cgagagcgag gtagtgagca ggagataagg 120

ggaaacgggg aagggagtgt aagggagtga cgtggtggtg gtgggtggtg aggcggagga 180

gaatacggtg gtgcggtcgg ccgttaagaa tatttctaag actacgtttc ctaagtcttt 240

gtttgctggt ttccacgacg cttgtgcgtg tacgaaggta gcggggaccc gtggtagtga 300

cgcgtatcat tctagggaga cgtgtactgt gtatcctgcg gcgaaagaat tgacggcgac 360

tgggta 366

<210> 51417

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-G8

<400> 51417

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aaaaaaaaaa aaaaaaaaaa aaaagggaag gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaaa aaaaaaaaaa aaagggaggt tataacaaag gatttaagta aatgaatgtg 180
 cgtaagtaat ggaaagatag caaacgggg tgattaaaac caaaccaatc ggttatgaat 240
 caaaaatgac attgagcggg aaaattaggg atggatttaa tcaaaaaggt cggaaaaaaa 300
 atttttaacg gtatatagat cgaatagtaa aaagggttgt attgactgtt tccataaaaa 360
 gcagtgtaat t 371

<210> 51418
 <211> 334
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-G9

<400> 51418

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 aggacgggcg cacgcttgcc gactacaaca tccagaagga gagcaccctc cacttggtgc 180
 tgcgcctcaa gggaggcatg cagatcttcg tgaagacct gaccggcaag actatcacc 240
 tcgagggtga gtcttcagac accatcgaca atgtcaaggc caagatccaa gacaaggaag 300
 gcatcccacc ggaccagcag cgtttgatct tcgc 334

<210> 51419
 <211> 369
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-H1

<400> 51419

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 aatcggagat cgtatgtacc gacgggtcgt cggggaatac ggacgtagat atcggcgact 120
 tctaagccgg tcgggatatg gactagtcta cgatagatac cgtataagtc atcgcggcca 180
 cgctaatcgc ggccaagaac ggcggatcag tattcgatgc gtcctaatac cgatgttgaa 240
 cagttgaggg aaagtatcga cgccgaggat ctgacatccg tctacactct tggaacggat 300
 atttcggttt gcggttcttg taatgttgat gagtcgactg aggaccggct tgcagacgtc 360

tctacatgt

369

<210> 51420

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-H11

<400> 51420

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agacagaatt atctgctgtg ttggcttggt tactttgatt gtaccccaag tattttgaag 180

ttctgaactt atttctgcta attggtgtct gaagtggata tgttgaatgt attttgtttt 240

gttggataga gttcctcagc attgccaccg tatgaaagat gaatctattg atcaaccaat 300

ttgtgcaaaa aaaaaaaaaa caatatgaaa aattaatact aaaaaattat taatatcttt 360

caatattaaa ctttt 375

<210> 51421

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-H3

<400> 51421

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ctgtctccta agtagtcgat ggatgttaag tggtagccta tgattgtggc tatggataat 120

aggacttcta agctggatgc ggaggtttct agagctaagg cgaagtcggt ggaggatacg 180

gcggtgtgtg gtgtgtcgct acgtgggtcg ggtagatcgg ggtcgctggt ggtgtcgaat 240

ttgtggtagg tgcgttggtg ttttgatgcg tcgcttgccg ttggttcgga tccttttggt 300

gttgatgatg ttcgtcctat ggggtcgc attggtggagt agtcgtagtc ctagagtctt 360

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<210> 51422

<211> 296

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-H4

<400> 51422

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ttggaccttt gggctgattt agtgcttggc ttctctagca ttctgacgcc aattacgtta   60
tagcgaagat ccttatcggg gagaagtctg cctgcgagtc cgctctcgac gatgagcggc  120
ccaacggcga acctactata atcgcttaat agtgcgggcgt cgtaactacc aaagtgagaa  180
agcctcttag cgtctctctg gtcgtcagtc tcgtccgcga ttatacctgc gaccgggcct  240
ccggaatatt cgagggcata cccgccctta cgggcgcgca tctcgacggc ctacat      296

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<210> 51423

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-H5

<400> 51423

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cccttccttc atcgagaagt taacgatgct cgacctacgc gtcttcccgga ccgtaatttc  120
cttaccggag gtatgtggaa aaaccggcga tcctacaaaa ggagcgcccg ttgctccttc  180
agatccggac cctctaccct ccgagacgaa cttgcctatt acggctaacg gggagttaca  240
cttctcggat acgagaggag aatcagacga tatagtagtc cctaagaatc ctaagaagcg  300
gggaggcaca gaacccttct cattccccgg aagagcatct agtttcatag aaagccctac  360
ttacgaatca gacgagaaga taagcgttct ctccaagcct atggccc      407

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<210> 51424

<211> 246

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-H8

<400> 51424

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tggccctgga cctttgggct gtttagtgct ggcgattagg ttgtgccgga ttggacggat   60
gagggcatcg tggctagtgt cggatcttcg gagtcgtagt tggattcgtg gttcggcctg  120

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tgggtgtata tgccttgggt ttttaattggg tctattatcg ggggtgttcgt tacttatgat 180
 gtggatcctg ggggggtggg tgcgcctacg ggttttgggt actgtcatga gggctctgtgc 240
 ctggtc 246

<210> 51425
 <211> 386
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-H9

<400> 51425

cgcggagttc aaggaggcct tcagcctctt cgataaggat ggcgacggct gcatcactga 60
 ccaaggagct tggaactgtg atgcgctccc ttggccagaa cccactgaa gcagagctgc 120
 aggacatgat caacgagggt gatgctgatg gcaatgggac cattgacttc ccagagttcc 180
 tgaacctgat ggcaaggaag atgaaggaca ccgactccga ggaggagctt aaggaggcct 240
 ttcgcgtctt cgacaaggac cagaatgggt tcatctcggc tgctgagctc cgccatgtca 300
 tgaccaacct cggcgagaag ctgactgacg aggaggtcga cgagatgac cgtgaggccg 360
 atgttgactg cgacggccag atcaac 386

<210> 51426
 <211> 403
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-015-Q1-K1-A1

<400> 51426

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 gttgttgctg ttaagcttcc ctgtactcgt gtggcgggtt ggtcaagaga tgttgcaagg 120
 ctgcatctgc agttgtcagc agcaaaatta gcagcagcca cagcaagagg caatagagga 180
 atccatgtgc tgtttgtgac tgattgcttc ccaattccaa acctcttctc ttgcaaggac 240
 ctagtgaaac gtgaaggcaa tgcttgatg taaaaacctg acgtgaaggc tctaaaggag 300
 aagctcangc tgctgttgg ttctgtgag cttgctgttc cactcaacgc anaagcacga 360
 ctctacacgg tagacagacg cagagaagca tatgctacaa tac 403

<210> 51427
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-A10

<400> 51427

ggcggcggtg ctgctgctgc agcacggtgg agccgcgagc gccggcgcca acttctagca 60
gacgtggaca tcacctggca ccaccgcctc atcctgatag tcgacaacct gctcttcctg 120
atccccgcta tcaacaccag ctccgggacc tgctgctgctc ccgagtgggc catccccgac 180
agccgcttcg acatgcagct caagctcgtg accagggact ccgccggcac cgtcgccacc 240
ttctatcttt cgtcgcaggg ttgcgagcac gacgagatcg acttcgagtt cctggggaac 300
gcgagcgggg agccgtacac ggtgcacacg aacgtgtaca gccaggggaa aggcgggcgg 360
gagcagcagt tccggatgtg gttcgacccc acggcggcct tccacgccta ctccgtgctg 420
tgg 423

<210> 51428
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-A12

<400> 51428

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agcttgctt cttcccccat accttccatc aatgatagct tcagtatgtg aaaaccagc 120
tcttcagccc tataggctcc aacaagcaat cgcagcaagc aacatacctt tatcaccctt 180
gttgtttcaa caatcgccag ccctatcttt ggtgcagtca ttggtacaaa ccatcagggc 240
acagcagctg cagcaactcg tgctacctgt gatcaaccaa gtagctctgg caaacctttc 300
tccctactct cagcaacaac aatttcttcc attcaaccaa ctgtctacac tgaaccctgc 360
tgcttatttg cagcaacaac tattaccatt cagccagcta gctactgcct actctcagca 420
acaacaac 428

<210> 51429
<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-A2

<400> 51429

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cccacgcgtc cggctcctcc tcgtcggttac agatctgggg acgaccaagg tggctgagac 60
taggcactgc ctgtcgcaga gccacctgtt caagggcctg tgcattgagca gcaacaactg 120
cgccaacgtg tgccagaccg agaactttcc cggcggcgag tgtaaggcgg aaggcgccac 180
gcgcaagtgc ttcttctaga atatattgcta gtagtagcct cagctttgct ggcacaagca 240
cgtcttttagc acgcaacgca attcaagcat catatcggtc ctcttgccgc gttgctgtct 300
actttgaccc cgtatttttt ttctatcgat ttctttgttt ttctgttgct ctcttatttt 360
ccccgaata atatgcttca tgggatctca ctgt 394
```

<210> 51430
<211> 428
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-014-Q1-K1-G5

<400> 51430

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ggacctttgg gctgatttat gtgcttgctg ggaactttgg taggtaaagt gaaagtactt 60
gtgtgagagg tgctgtgcgc cttcggctct gcttctatgc gttgcggttt ccttgctcctt 120
tttgcaacttg tttgcttcgc ctttgttttg agtgaattgg tgggtggtgga ggtgacgtag 180
tatgagttgc ggtggttcgg tgctgagttt gttgttgggg tcggggtggg ttctgtcttt 240
attattgctg atgaggtact tacggagtgg agtacgagtc ctgctaaggt gtcctaggag 300
tctaagaatt cgtgtttgta gtctcatctg gttcttgagc atcgtgagaa gcttcattcn 360
tgtagtgaat agaaattagc ggcgtcggat aatacgaaag accatgtcgc tagggtttcg 420
gctaattgt 428
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<210> 51431
<211> 421
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-E9

<400> 51431

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gggggtgaaca ccaaggagga tgtcgcgtgg tacgctggca agcgcacatggc gtacatctac 120
aaggccaaga ccaagagcaa tgagacccgc tacaggtgca tctggggcaa ggtcaccctg 180
ccgcacggaa actcgggcgt cgtccgtgcc aagttcatgt ccaacctccc gcctgagtcc 240
atggggcgca aggtcagagt gttcatgtac ccgagcagca tctaagggtt tggttgagta 300
aagatggact agaaatggcc atgtgtttat ttctcacttt tctctgaact taaaatgcct 360
tgtgttggtg acttaaatg ttcaagtgt gaacctgtgg aagttgtgcc aaaatttggg 420
g 421

<210> 51432

<211> 294

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-F1

<400> 51432

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tatcgtacgg ccttagtggc tagtcttgtt ggcggttggt aaggccagcc agcaagggca 120
tatcatattt atactttact ttactttacg tgcgttatga tgaacgaaaa catcagttcg 180
ctagatctct ctctcgttgt taacactctc tcgtcagttc tcgccattct atcgatgatt 240
actaattacc agctctattc ggatgtaaat cgtaacagtc aatcggttaa tctg 294

<210> 51433

<211> 333

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-F11

<400> 51433

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 ggtattgctg ctgggattac aaaaaaaaaa aaaaaaaaaa aaaaaaaca aaaaaaaaaa 180
 aaaaaaaaaa aaaaaaata ccaaaagcaa aatacaatac aaaaaaccac tgtactgtaa 240
 catcaactac gcaactcacc aagcacaat ttgctgtctc aactactcca gtttgaaaaa 300
 tcccaacaag aatgatatacg gcgccttata tga 333

<210> 51434
 <211> 343
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-F12

<400> 51434

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 agagagatgg agcggatgag ctcgtcgggtg cagtcctggg tggaggaaca caagctctcg 120
 tccatcggag ccgtgtgggc gacggcgggtg ggcgcgtccg tggcgtacag ccggcggagg 180
 gcgccggcgc gggccacgag cctgcgcctc atccacgcca ggatgcacgc ccaggcgcgc 240
 acgctcgccg tgctcggggg agccgcgcgc gcgcaccgct attacggcag cagcgagagg 300
 aggcagagggc aggaggacct ggactacggc ttcaaattccc agc 343

<210> 51435
 <211> 348
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-F2

<400> 51435

tttgggtctga tttatgtgct tgaaaaaaaa aaaaaaaca aaaaaaaccc caacaaacaa 60
 aaacaaaaaa aacaaaaagg gaacgggcca accaaaaaaa gcgaacacga aaaaaaacag 120
 cacaaacaaa cgaaaaaaca aaaaaaaaaa aggggtttttt ttccaagggt gtttaattcc 180
 tttcttttcc ttactttatt ccaaattttt ttcaacgggt tttttaaaact taaatttttg 240
 ttttttcccc tatttttccc attttgaaa attttggggc ctttttaact caatttttcc 300
 gtaattacct ttttcccctt ttgccgttta aaactttaaa ggttttttt 348

<210> 51436
<211> 359
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-F3

<400> 51436

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gctgtaagtt attgaccgcg ccataggtgt gggagtcttt gatgatgac gagttacgcg 120
tggtgggtgtg acttccgttg agtcttgtga gttgggtgtt tggtgggtcta tggagtggga 180
tactcggtag tagaagaaga agtttaagag ggggtgggtgtt ggtgggaggt gtctgcctgt 240
ggtggaagat gacgaggatc ctgaggttga tcttgaggat cccgaagttg atcttggcga 300
cctggacccg gagtctgggg aaagggtcga tgatgatgct actgagacta agtttcctg 359

<210> 51437
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-F4

<400> 51437

gcttggaacc tttgggctga tttatgtgct tgcttatact tagccgcggg ggtcaacttg 60
acctttatcg tttaaaattt cattcttacg ttcgtctgta tggtcgtggt ccttctctag 120
tagaatggcg ttataattta gataccctta gcctggtgta gcggaattg cggaaacggc 180
agtaacggcg gtgctagggt cgtaacagc agtggaggcg atgggagtag tggtagcggc 240
ggcgacggca atcggaacga cggaagttcc ggcacgata gtggccgtaa tagtagtaac 300
ggtgacggct ttactaacc ggacgacaac gctttcggtg tctgccgcgt ttgcgggaac 360
gataacgata gtagtagaaa cttcctcggt aacggttatc ggaattataa tacatgaggg 420
ggcggcggcg gc 432

<210> 51438
<211> 346
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-014-Q1-K1-F5

<400> 51438

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cggttaggag ctageccgcc gttcgatcct aagatagtcc cttttaggcg gtaagtctag 120
gcaaggtaat agtacaagta cctgtcggg tatacgcggt aagcgtaccg cgcacttcta 180
cttacagtcc ataactcgcg cccgctacac acaattgacg ttcttaccat aggattcggg 240
aatagcagct ttaaactccg atttcgtcgg gccggattcc tctctcaaaa cgtcctgaca 300
tgagttaagt aaaagaacta tagtgaggnt agtatccgag tacgag 346

<210> 51439
<211> 390
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-014-Q1-K1-F7

<400> 51439

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tccaaatgat gaattaacgt tggacgtcgt actggaaaag gagtagggaa acgagcacc 120
taaatagaag aagcctatcg acgtcaccga acgtcatctt agaagcaccg ggctcgtctt 180
catagtagct ataccgtaa acagagtcac ggtacactcc aaatcaagaa gacctaagga 240
ggtagaggat gaccgtatcg aagtctcgaa ctgggacgac tgtcacacca aagtacatct 300
atgttgaacc atcgtatgaa aagaatccgg gaagtcnaag gaggtaacgg acgacgtcga 360
aaccgtcact agctccgact taaataacct 390

<210> 51440
<211> 393
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-F8

<400> 51440

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cgacgacggt ataacgctat cgtgatgttg ctctgtagac cacgtcgtaa tagtagccat 180
tacctacgcc taatttaacg gttacgatga ccttatttac gcctccatag taatttcccg 240
ccggcgctgt acctcagaca gaaacacccg cgccgcatta aacaacgagc cgatacgta 300
ctgtgcgcga tctaccacca ccaataacaa aataagcctt tccccactaa aaaaaaaaaa 360
aaccaaacaa aaaaaacaa aaaaagaaac aaa 393

<210> 51441
<211> 352
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-F9

<400> 51441
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ccccatttct cctcttttcta gggtttctacc cctcatcggt cctcgctcca cgcccatggt 120
gaggatgaag caggtaaaga tctcggtaaa gaaggacgtg gattcgtaca caatccgcgg 180
cactaacaag gtcgtccatg tgggcgactg cgtgctgatg cgggcgtcgg actcggacaa 240
gcagccgtat gtggcgcggg tggagaagat ggaggccgac ggacgcggca gcgtgcgggt 300
gcaggtgcgc tgggtactact cgcctgagga atccaaaggc ggtcgccggc ag 352

<210> 51442
<211> 314
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-G1

<400> 51442
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tacggatgcg tcgttgctgg cggagtatac agttgatcta tggagtgggt gtcggccttt 120
gggtgtggtg tgctctcgga tgggtgtgga gaataagtag cctgagtggg tgtcggttgg 180
gtctgattct cgttggttgg atcgggagaa ggcggtgtgg gttactttgg gttggatggc 240
gtgtgaggct tctagttatc ccaagagttc atacgctgat gcctagtaga ctgagagtgg 300

ctaggagttt acgt

314

<210> 51443

<211> 412

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-014-Q1-K1-G10

<400> 51443

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gatggccagc cgctgggtcc ggcccagagt gtacccgctg ttgcggcgca cgggcgtggc 120

cgctcggcatc tgcgggtttc agctcttccg gaacatcact ggcaaccgg aagtcagggc 180

aaacaaggca gggagggcag ctggtgtgct tgagaaccat gaggagggga gacgttacgc 240

catgcatggc ctaagaagct ttgtgcacga caagactcct gagatcatgc ctgcagttaa 300

caagttcttc actgacccta agtgaagcat gttgattggc atactactac tactactngc 360

tactggggat tntacacttt gctggcaact caatatgttg gggacattca tg 412

<210> 51444

<211> 283

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-G11

<400> 51444

ccagctacac ccacgcatcc tacaaaaaaaa aaatacaaaa cattatacct taaacaataa 60

acaacaacac aacaaagaca aattaaaaac aaatcaacac ctacatcact aacaaaccca 120

ccaaaatcta aactcaaaaa cctctaatac attaccctaa aaacaaagac ttcccagatc 180

aataacctta ccttcactta taaaaccatc atcatcccca tcaacatcaa ctacaccatt 240

aacccccctat tacactacct ctgcatactc tgcaaccaca aca 283

<210> 51445

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-G12

<400> 51445

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aaactggtga cggtaaaaat ggccatgata atttttttgc aaaaaaaccc cccccctttt  180
tacaagaaac ggggggttttt caaaatggct tttttaaagg tttcaaacc cgtgactgct  240
tttttggcac cctatcccaa ttcctttggc ttcgggaaat atgcccattg tacagcccc  300
gcttgggaaa ggccttttcc caatgaaaag catttgcctt ttgggcctac ccataattgt  360
tccggaccaa ggggaaaaaa ggcccccccc g                                     391

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<210> 51446
 <211> 171
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-G3

<400> 51446

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ggccctggac ctttgggctg ctttatgtgc ttgatgcgat accgacggcg gcggcggcgg   60
cggaggagga ggaggagtat ccgactgcgc gacggcggac gggggcggag gcggcggtgg  120
cggagtgacc gtaccgccac ccaattccgg aagcagaggc ggaggcggag g                                     171

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<210> 51447
 <211> 338
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-E8

<400> 51447

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ttaccggtaa ggagaccgcc gattcgcgtt ccgattgtac taggaagtcc gtagacaacc  120
gtatcggtc ttagggctct tctgtccta atgtcgccgg cggaggaatg ggtctcgggt  180
ccggcctctc ttcttcggag tgttcgctcg ccgatcacgg taagaagctt aagtctggcc  240
ctattgcgca ttacttttt taggcgtta tacttgccgc cgagttacat aatagcgctt  300
cgcttattta tctctcttct gagtatatcg acgccgtc                                     338

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<210> 51448
<211> 334
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-G4

<400> 51448

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taacatgggt aacgtccgga ggatgtctaa gacccgcctc ccgcggcggc gtattctcgc 120
taagcgatat ataaagaccc acgaacacac gctcaggcgc tttagcgggc taaggtcacg 180
gaccgatcga aatccgcgtc ggagtagtcc ctatcgaacg ggacgacata agcgcgggct 240
gcgcgggctt aatatacttc cgccgtcacg cgaagtccgc tctacgggaa gaaggcggcc 300
ataagaccct cgacctctta acgttgagag gaga 334

<210> 51449
<211> 404
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-C11

<400> 51449

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gttgagatgt tggtttatca ggatctccta tctggcgacg agctcctgtc ggattcattc 120
acctacaagg agctcgagaa cggcgtcctg tgggaggtcg agggaaagtg ggtcacccaa 180
ggtcctgttg atgtggacat tggtgccaat ccatccgccg aggggtggtga ggacgaaagc 240
gttgatgaca cagctgtgaa ggtggttgat attgttgaca cattccgtct acaggagcaa 300
cctccttttg acaagaaatc atttgtgtct tacatcaaaa aatacatcaa gaatctcact 360
gctgtgttgg agccagagaa agcggatgag ttcaaaaagg gtgt 404

<210> 51450
<211> 382
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-014-Q1-K1-C12

<400> 51450

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tgaagtgaac cgatcgatcg atcgatcgag cgagcgagct cccatgaagg cgttgattct 120
ggcggcggtg ctgctgctgc agcacggggg agccgcgagc gccggcggca acttctacca 180
ggacgtggac atcacctggg gcgacggccg cggcaagatc ctcgacaacg gccagctcct 240
gacgctgtcc atggacaggt cctccggctc gggcttccag tccaaggccc agtacctcta 300
cggccgcttc gacatgcagc tcaagctcgt cccggggggac tccgncggca ccgtcgncac 360
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<210> 51451

<211> 70

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-C2

<400> 51451

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aaaccaacaa 70

<210> 51452

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-C3

<400> 51452

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gataccttgt tttaagaaga gtgtcttact aggcagtaag ggagtatagt cttgaaagta 180
tacagacgtt atctctggta gcggaattc cagggaagtc gcgaggccgt tcttcggaga 240
ggacactaac gaacgggtccg tggcgaacat cgcggaccct cccaattaag ccaacacgtc 300
gcacggtata tctatagaac cccgtatatt cgagagtcgc ttgataacga tagtcggttt 360

aaagcatgag catagacggg tcgacggcgc gtagacaaag aaatttacag 410

<210> 51453

<211> 107

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-C4

<400> 51453

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tgctgatgct gacgggtttg agggaggtga ccaggctagt gatcata 107

<210> 51454

<211> 78

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-C6

<400> 51454

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tacggagtta gataaggt 78

<210> 51455

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-C9

<400> 51455

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cagccatggt gcacgtcaac ttctaccgca actatggtaa gacgttcaag aaaccaaggc 120

gtccttatga gaaggagcgt cttgatgctg aactgaagct ggttgggtgag tatgggctga 180

ggtgcaagcg tgagctttgg agggccagat atgcactgag caggatccgt aatgctgcaa 240

ggcacttgct cacccttgac gagaagaacc cccgtcgtat ctttgagggt gaggcacttc 300

ttcgccgcat gaaccgctat gggctgcttg ctgagggtca gaacaagctt gattatgttc 360

ttgccctcac cgctgagaac ttcttcgcaa ggcggcttca aacacttgtc ttc 413

<210> 51456
<211> 360
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-D10

<400> 51456

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cgctgtggga cggcagctac tgggccacgc gcaagggcga ggtcaagatc gactgggtcca 120
gcgcgccctt cgtcgtctcc taccgagact acaccgccaa cgctgcgcc gtccacggcc 180
ggaacggcgg cggcagctcg tcgtgccccg ccggtgccaa cgagtggatg gacaggcagt 240
ccgacgacac cgaccgtctc accgtggctt gggcgcgccg gaactgcttg cagtacaact 300
actgcgatga ctggtggcgc tttccgccag ggttccccg aaagtgcgcc cgcaactgat 360

<210> 51457
<211> 359
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-014-Q1-K1-D12

<400> 51457

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agcaagatcc agaatgacat cgtcaagaac caccaggtcc gcaagcagta caccatccag 180
gtcggcgaga acgagctcgt cctcaaggag ctggagctgc tcagcgatgg ggccaacgtg 240
tacaagctca tcggaccggt gctggtcaag caggacctcg ctgaggccaa ggccaacgtc 300
aagaagcgca tcgagtacat ctncgcagag ctgaagcgga tggatcgggc gctcaaaga 359

<210> 51458
<211> 355
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-D3

<400> 51458

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 ccgaacttcc tacgctagag aaggacggca cgtccctact gccggtctgg tgcgtaaagg 120
 tcccgaaga agtacctaag agcccagaag gaaccatacg taataaagtt gaaggcgtaa 180
 cgcactcgcc tttatgttcc taccattttt agaaggtaac cggagtagtt taagtagctg 240
 gtatcgtgtt agacgtacat catgtaaaat gttcatcgga agttatcgga actgctgctg 300
 cttttggcct cgggcccggg taggctttcg gaatgcggta tcctaggcgt atgac 355

<210> 51459

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-D9

<400> 51459

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 gttttataag ccaaactgat ttggtatggc agaggttgga tgaggatgaat ggagatgggg 120
 gttttcttac tagcaacttc acaccattta aggctgaaac tccaagaaat gattcatgga 180
 atgaacagca agctatgacg agtactgctg attatcttgc tcaatttgac aactccactt 240
 ctggaaactc tgatctggag ctagctatag cacttcaaca gcaagagttt gagcggcaac 300
 cacaaagggt ccaagctcca tcaccacagc agcagcaaca acaaccacta cctcagacgc 360
 agcaccaacc agtcaatc 379

<210> 51460

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-E1

<400> 51460

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 ctagaaagta tcgatcccag gtgtcgattc agccacctac ctcgtaataa agcataccgt 180
 cggatataat gacgccaccg gaggacgtgc tagcggtaga aacgagccgg cccttaaagc 240

ttgcacccac tattacgcgg cggcgggcgc ctcaaatttg aacgtcgtgc attccacttc 300
ctgaggtacg aaaatatcct actcttgccg gtaacgctag aacaatatcg tctcctggac 360
ggtttagccc ccagaggaat actcaaagac cgtttgcgct catcacttcg g 411

<210> 51461
<211> 423
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3079-014-Q1-K1-E11
<400> 51461

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tcnttgaaac tcctgtattc aaatnnattg gtcaagggtg cctttagggtg agttggctgn 120
nctgaaaccc tccaatngn naaatgactg gnntcatgga cctcataggt actcttagag 180
tagcttgaga ctatgactgt tattgggtac ctctgtacaa atgtattccg cataaacgct 240
ttaaacttga gggcaataac ttagtgtgtc gtatctctta tttgtttgtt ctctttcaga 300
cgattaccta gaaagcgcta gctanagatt cagagctcgt aaatgcctta gaaatgccaa 360
catgtgctag aattcgtgtc tagtaaaaat aaatacctcn ntctcagtta agaaaataaa 420
aag 423

<210> 51462
<211> 275
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-014-Q1-K1-E2
<400> 51462

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ggccgttata ccaactcaacg attcagtcgg tacatccaca ccgtaacagt acaactccgaa 120
actcggaaca cccgattatt attcttctag tcattcggcc gtacgttata gactcgaaac 180
ctcgaaacgt cgcgatcgcg atcgcgaggc acgaaaaaat agcgcaaaca atgtggccgt 240
tcatgcatac gcgcgatacc ccacatatgc gtaag 275

<210> 51463
<211> 373
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-014-Q1-K1-E3

<400> 51463

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gttacccccg acggttaccc aggagacaag gcgtaagcc atccgaaagt caattccccc 120
agtaatacaa cgaaagagtt ctctcctcgg ctcagtttct aagaagtaac aaagaacgta 180
catcgtctca taaataagca cacctcagaa aacattaaat aatccggatt aagcggcctg 240
atagtagcca tcgtcaccgc agccgacggc aaggatacgc ggacagtaaa cgcangtgat 300
ctcagagtcg ccgcgcgcga aagaggtctc gtcaagtagt ctatcgccga ttacgagttt 360
tacgaaatca acg 373

<210> 51464
<211> 391
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-E4

<400> 51464

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agctgggtgc taagaagggt gcggtgtatt agtttgcgct tgctgttact gaggttagtg 120
gtctgtatcc ttagcctcat cttgaggggg ctcctcttgg taggcgtggg atggagtcgg 180
attatgggtgc tgtggtggct ggtcatgggg ctattgtgga tggattaag catcggtcgg 240
ctaagaatct gcgggggttt gagcggggtg agaaggggca tacttgtacg gtgtgtgatg 300
cggttgttaa ggagggatat cgtgggtactg ttacggaggt acctcatcgt gctaagattc 360
cgtttaattt taaggcttat gttgctgctc a 391

<210> 51465
<211> 322
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-C10

<400> 51465

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cgaatctggg tgccatgcct aatctggagc agatcaatgc tctgatcaag cactacggcc 120
caaccgtttt cttccaccgg caagagacgt acttaccgtc atcagtttct tggttctttg 180
agaacggagc tacattgcac gagaaagacg caaaaatggg agatgcaata ctccctgggtg 240
gcttgaatct gcctgttggg gggacaaacg atggcgagta ctggattgat ctccctgatg 300
atgacaggaa agagctcgtc ag 322

<210> 51466

<211> 353

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-014-Q1-K1-E5

<400> 51466

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ttgtatcctt gctcgattca ctaactacaa ggtatcgatc ccaggtgtcg attcagccac 120
ctacctcgta atatagcata ccgtcggata tagtgacgcc actggaggac gtgctagcgg 180
tagagacgag ccggccctta aagcttgac ccactattac gcggccggcg gcgcctcaaa 240
tttgaacgtc gtgcattcca cttcctgagg tacgaaaata tcctactcnt gcgcgtaacg 300
ctagaacaat atcgtctccc tgacggttta gccccagag gaataactcaa aga 353

<210> 51467

<211> 202

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-E6

<400> 51467

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aaaaaaaaaa aaagaaagga aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaa aaaaaaaaaac aaaaaaaaaa aaaaaaaaaa acaaaaagca aaaaaaacac 180
 ataacaggca aaaacccaaa aa 202

<210> 51468
 <211> 428
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-014-Q1-K1-A1
 <400> 51468

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 ccgtcagact ctgataacga tatcgtgccc gccggcgccc ccgacggata cggaggaaaa 120
 gcagctgtta aacctcgcgt aaaacactca tatagagaag cctctaggag cgaagtccac 180
 gtagtcggcg attcgggcgt cgctcgcttat agagtccatc ctagaacgga cgaaacgacg 240
 tgaggctaaa gaggacggtg ggaatcctaa gtatccggag acaagacaaa ctagcccagc 300
 ggtacaacag aaggtccaac ccggtctctc aaagtaagcg acctaaacga cagatacgac 360
 gaccgggtcc ccgaggaggg attatatctc gaccccatcg ggttaaaccg cgggagcata 420
 gttcgcgc 428

<210> 51469
 <211> 103
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-014-Q1-K1-A10
 <400> 51469

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 cacttgga ca ctgtccatca cttacatata tcaccttaca cat 103

<210> 51470
 <211> 357
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-014-Q1-K1-A12
 <400> 51470

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 cctgcacctt catcctgcgc gctccagtcg accgcgcaact gggaccagcg cagtgccag 180
 ccgagcagcg cgacgcccgg aggcgttcat gtgcttctcg gactttggcc gctggatggg 240
 gtactctgcg ggatccgcaa cctcctactg agtcccgca cagaggggca ggcattgtgag 300
 gctttcgtag gaagtgcagg cagccggccg tcgacaccaa gcaagccttg cgcttat 357

<210> 51471
 <211> 361
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-A3

<400> 51471
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 aaaaaaaaaa aaaaaaaaaa aaaagggggg gttgtctcaa aagacttaag tccatgcatg 120
 tgcgtacgtg atgctacagt ctctcacag cgctattcaa acctaaccta acggttgctg 180
 ccccaaaatg ctgcgatcgg gaaaatttcg gtgccattta atccaactgt tccgtaataa 240
 aacttttccc tgtagtcgg tgcaacagtt aaaagggttg gattgaatgt ttcccttaat 300
 agccgtgtaa ttcgaacggt taacgggatg tgtttcgcaa tgggtgtacca agtgtggtgg 360
 g 361

<210> 51472
 <211> 177
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-A4

<400> 51472
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 tcatcgtcgg cacagagttg gaggacgcgg tagaatgtcc gacggatcat gggccttatg 120
 tattgattac gctacggttc gccttcggta tatccacgac cgaattaatc caaagcg 177

<210> 51473

<211> 362
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-014-Q1-K1-A6

 <400> 51473

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 ccatacggga cgtaccggaa aggataagcc cggcgaggaa acgaagaaaa atgtctaagt 180
 cgtaggagcc atcgtctacc atcatgagga cgagatcgtc ttcatcggtt tacgcgtcgc 240
 acgcgcgcgc ggcggcgaaa ggctaccgac cgtaaactcg ctagtggtaa atcgccataa 300
 actcgagtac tcaaagagat tagagaatcg ggtatcagcc gaaaaggtaa aacataactca 360
 ta 362

<210> 51474
 <211> 348
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-014-Q1-K1-A7

 <400> 51474

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 gtcaacaaat tattattagt cttcttgggg atcccgttca acgggacgcg ggccttcggc 180
 gtcttaataa ggttattggt gtaagttttc ttattttcgt tataagcctt attgtttttg 240
 ttctacgtat tcttcttcgt atttacggga acgtttttca ggaccttctt atttttcacg 300
 ggcggcgccct aattcttggt gttcttctta ttgctagccg taaacggc 348

<210> 51475
 <211> 384
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-014-Q1-K1-A9

 <400> 51475

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 ttcttggagt tggtgccctc ggtcttttga gttttgctac aatagcatct gctgatgaag 120
 ctgagcatgg cttggcagcc ccagattatc cctggccaca tgctggcatc atgagctcgt 180
 atgatcacgc atcaattcgg cgtgggcac c aagtttacac gcaagtttgt gcctcttctc 240
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 caaaggcaat ggctgctgag attgaggtag ttgatggctc taatgatgaa ggtgaaatgt 360
 tcacccgccc tggtaaactg agcg 384

<210> 51476

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-B11

<400> 51476

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 gcggtgtcgt tgggaagtagc cactcgcagt cccatcatga ggagattgtc ctgcctcttt 180
 ggctccctca aacttagtaa cagcaactgt gagccagctt caagccggtt cactgaggtt 240
 cgcgctgct aggtaggtag tgtcttctc cagttttgca tgctgcatca agagtgtatc 300
 tctagatagg caggcaatca tccaaaaagg atttgtagaa gcctgtgttc atttcatggc 360
 catggggcag tgccatcggg aagaaagttg tgtgca 396

<210> 51477

<211> 364

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-B12

<400> 51477

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 aattcttgag aaccctaag acaacaccaa ggttcactta atttatgcta atgtcacata 180

tgaagacatt cttctgaagg atgagctgga cgacatggcc aaaacctatc ctggccgctt 240
 taagatctac tatgtgttga atcagcctcc tgagaactgg aacggtggtg ttgggtttgt 300
 gtctaaggaa atgatccaat ctcatgtgcc agcgctgct gaggacattc agatcctgag 360
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<210> 51478

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-B3

<400> 51478

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 cgcgaggtag caactaagga agaagccgcg aaaaaggcct ctaaaataaa cgcctaggtc 180
 tccgcagaac cgaatgcgac taagaattct gtcggcctag tcgccgtcgg tgtctccggg 240
 ggccctaacy ttacgtaag caataccgcg gtggttactc ctaccgttat cggctaggat 300
 ttcgtataga atgcggagag cctttagcgc actattacgc cggaagtcac aaacgacggt 360
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<210> 51479

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-B4

<400> 51479

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 ggagcctaga ggggtgtata ctatcggacg ttgtcgataa agcccgaact cctcacgtaa 180
 tgaataatga gtcgcgtggc gtagcccgcg acccttcggt aacctgccct cacgcgacct 240
 tattagtttt agttctattg ttgagcgtcc tcccccccc acggccctct acttcaacta 300
 ctactgggaa ttaatcaacg aagtatcgtg tgtttacctt ttttacggcc ctctcgcaac 360

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403

<210> 51480

<211> 302

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-B7

<400> 51480

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ggggtcagtc ggaaaggctg ggagttacgg ggagggggtg ggcggagtcg aagtggactg 180
agaataagac taattgttag gctattcctg ttaagtgttg taatggttcg tctaagaagg 240
tgcattgagtc tcaatagtct cgtgatgttc aagctgtgtc tactgctgca ctttaattgtg 300
gt 302

<210> 51481

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-B8

<400> 51481

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cttcttgatt gattggttac gagtcattag gtcttcttct tgggtattct agttcatttg 180
ttgttgggta tgggttcattt cttgttaggt tagttgtagg tgcatttggt gttggtacat 240
ggtgtgttgt tatttacggt tgttggtggg catttctttt tgttgtagta ggatctcaag 300
ggtggtaatg atggctcttc gaaaggacgt ccggttgtct ctcgtcgtcg tcgtacgtct 360
gatacgctc ctcgagcctg ctgctagggg tcttaggtat ggggacggtg 410

<210> 51482

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-C1

<400> 51482

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gctattctct gatggtagat cagggggtag gtttactcta attggtggta gttcagggtc 120
ctacttttta tttttaaaact tacgttgtct aggcgggaga ctaacggcgg ttcgtctgat 180
tctatcggac tctagctttt acgctgcttc ctcactctct gtgctatccc gaccccgctc 240
ctcagcccca ccccgctcct accggggcga ccagcggaaa cccctctaac ggctagagag 300
ggctaagccg gcggatccgt attttatgga ggtacggacg ccgagttcgc ctctgaggag 360
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<210> 51483

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-H9

<400> 51483

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ccacgcacag cagccgcagc attaccgtga ctccgctggt ggcggagtct ctggtggcac 120
acctgccgag cagcacccta tccacatgga cttctcgcgc aatgaagctt ggctgcaccc 180
atcacaccac cagcatcccc atgaacagaa ggtccttcac tctcgccta tcggaccagc 240
tgggcatggt gggcatccag gccatgttgc ccatcctgtg catgccgtgc atgttgtgca 300
tcaccatcct actggctatg ggatgatatc agatgcacaa catactcttc agatgatgca 360
accacagctt gagtcacagc ttc 383

<210> 51484

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-G3

<400> 51484

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gtcctgaagg tttgcttgag gactactgac agtacagtta atacatcaga gattgcaaag 120
gcatatggcg gaggtggaaa acgaagttag agttcattca ctctaagaat ggatgagttc 180
aacatctgga cttcagtga ctcattgaatt gaactggaga ggtcacatag tgttcataact 240
gtgggaactc gcaaccagct catctgggca tggattccct cagtggtgaa catgtgaaga 300
tggggtggtc tttttgtgct ccggtatgag agggaggaaa acaaaatctt agtctaacct 360
accatgttga tatgagctta caggagaata atctcttcga tatgaatgac tggagagcaa 420
tttggaggca taatgctt 438

<210> 51485
<211> 384
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-G4

<400> 51485

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ggctggcctc gctgtaacat atggacttaa tttaaatgct cgcattgcaa gatggatatt 120
gagcttctgt aaattagaga acaggataat ctctgttgag cgcatttatc aatattgcag 180
gcttcttagt gaagcaccat tgattattga gaactgccgt ccaccatcat catggcctca 240
gaatggaaac attgaactga ttgatctcaa ggtccgctac aaggacgac taccattagt 300
tcttcatggt gtaagttgta tgttctctgg cgggaaaaag attgggattg tagggcgtag 360
tggaagcggg aaatctactc ttat 384

<210> 51486
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-G5

<400> 51486

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tgatgcctct cagcctataa cattgatgac agtgactagt gatactagtg atcatgctgg 120
cgaatgctag acgtcattac catacagcag gccagcagcc agtaaggagc tccactttgg 180

cagcctgcc a ctctgcttct tccactcctg aaaccgagcc tgcaggtgca ggcaatgcgg 240
 ttgcttgctg gaggccttat ccaatcagtg aaggcactaa actcgcaaag ccgttggaat 300
 ctgcgagcaa ggtcatgcac atcttggttg atgaagttaa tacagcctgc actgcaactc 360
 ccgcactctc gcgatcgtgt ggaagacgtg ggcgccgttg aggggtcaaaa tcttctt 417

<210> 51487

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-G6

<400> 51487

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 ttgctgagat gtttcatctc actcttgcat tactcaatgc aggtgcttgt tgctcatcaa 120
 ggggagcggg aagtagcagc acacccacct tcattctcat aataatgctg tccagacgca 180
 gccatgatct aattagaaac ttcttgctca aggatgttcg ttcttaacta gtcgtgcgca 240
 ctgattaatt cagttcatgt tgatatggtt gtcttaccat tgctagcaga tcattaatgt 300
 ctgatatgtt ggcttaacac atcttggttg atgaagttaa tacagcctgc actgcaactt 360
 ccgcactctc gcgatcgtgt ggaagacgtg ggcgccgttg aggggtcaaaa tcttctt 417

<210> 51488

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-G7

<400> 51488

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 taagggaaac aaagccggtg aagattatga tgggtggccg gacttggtatg actttgtcaa 120
 gttcattaat gagaagtgtg gcaccagccg ggatccaaag ggccacctga atcaagaggc 180
 tgggcttgct ccaagcttga atcctcttgt gaaggagttt ctcaatgctg ctgatgacaa 240
 gcggaaggaa gtctctcta aaatagaaga ggatgttgct aagctcagcg gttctgcagc 300
 caagcatgga aagatatatg tgacagctgc aaagaagatc atagacaagg gctctgacta 360

cactaagaag gagactgaga ggcttcaccg catgctggag aagtcaatca gtccttccaa 420
agctgatgaa ttcattc 436

<210> 51489
<211> 393
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-G9

<400> 51489

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gagtctgtac atgatatgga tatcgatggg gacaatggga ggcgtcggaa acgggtcaaaa 120
agcacaacaa gcccggtcaa gaacaatcac acagaggatg ggcggtccgt atttattggc 180
gaagatactt acaacgggag tcagcaaggg acagaaagcg aagactatac taaattcact 240
gtgctgaagc tgaagcagga gctcaccaag cacgggtttg gtgctcaact actccagttg 300
aaaaatccca acaagaagga tatcggtgcc ttatatgaaa agcatgtcat cggcaagtag 360
ttcctcggca atacttgat ttatgcttta tag 393

<210> 51490
<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-H1

<400> 51490

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gtggaggtgc gcactacctc gcaacatggc aagctggagg tgctttcgga gcagcagttc 120
gtcgactgcg accacgagtg tgattcatcg gagcctgatt catgtgattc cgattgccat 180
ggtgggctaa tgacgactga cttcagacat ctccagaacg ccggtggcct tgagagcgag 240
aaggattacc cttacactgg gagtgatggc aaatgcaagt ttgacaagta caagattggt 300
gcttcagttc agaacttcag tgctgtgtct gtggacgagg ctcatatttc tgctaacctc 360
atcaaacatg ggccattggc aatcggcatc aatgctgact acatgcatac atacatggga 420
agcgtgttat gccatacat ctgtggcag 449

<210> 51491
 <211> 400
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-013-Q1-K1-H10

 <400> 51491

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 agcacaggcg gtggcagggc cgaagccgag tgcgatccca agtccctggt ggtgtgcaat 120
 cccgcattca tggacggagc gaaatcctcg tcaacattct gttccaccct gcgttcccag 180
 gacgtatgct tgtgctgta cgccaaagac ccctactttg ccaaatacat caacaaccac 240
 aacattgcct aaagctttat ctcgatcggc atatgcttac ccaaattgctt agcaagcgct 300
 ctgcgctggt gctgctcttg ctcttgctat agtgagcaac atattcagct tatgaataca 360
 ttatgtggat cagtttagaa aaaaaggccc cccccttttt 400

<210> 51492
 <211> 374
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-013-Q1-K1-H11

 <400> 51492

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 cgctcctcgc actgcaacac gcccggaacca cgggtgcattt gatccgtccc ggccgcctac 180
 acgatgtcca agtcgggagc gctggatctt gcttctggcc tcggagggaa gatcaacaag 240
 gtggaagtca agtcggccgt cgatgagtat gagaaatata atggatacta tggaggggaag 300
 gaggaagcaa ggaagtccaa ctatactgat atggttaata aatactatga tcttgccact 360
 agcttctatg agta 374

<210> 51493
 <211> 382
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-013-Q1-K1-H2

<400> 51493

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ggcggctctc gttctttctt tctttcttcc tttctgtttg ctgcacgat gtagggagga 120
ggaggaggag gaggaagcaa gtatccatct gacagcaggg tgcccccaa tggcgacaag 180
atcgacatct acgatttcgg cgtgacatct ctgagggtcg tgaccgggag gcccatcacg 240
tccatacacg aggtggagggt catgaaggag cagctgcagt cggcgtgac gtcggagagc 300
ccggngcggc ggaaggcgct ggtggaccag gcggtgagcc gggcgtgctc cgacgagtcg 360
gcgcggacgg tgatggagat ct 382
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<210> 51494
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-H3

<400> 51494

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ccaacgcata acaaactgaa cgggtcttcc accaagataa cattactaaa cagtatggtg 60
gacgcaatta aatgctaact cccgactaga aactaagga aacgataacc atagctacac 120
agaacttgag cagtgtgtgt ccacccgtaa gcacgcaaca cagtccagta tgtagccgat 180
gtttagtagc ttgattccga ccagaaaggg ccaggtagca caccagagca acctgtcaag 240
cgaagggcac acaacctgcg actaggactg agaactctgc tgcgaaatgc accgagacaa 300
ggaacacca cataacagat attgtgttgt cgcgcaccaa atggggcaac acatgatccc 360
tagctagggt aactcgagct attacgcaga ctgggctaac tcacgtacga 410
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<210> 51495
<211> 329
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-H6

<400> 51495

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cgcttggtcg tgactcggag gggccaagg gaggtgggac gtttttcggt cgaagcggaa 120
aactagcggg aatggaagg cgaggcagtc ggcaggccga gggcgggtggc gccggatacc 180
ggctggtgcc ggtgcaccca aagtgcgaca atgttcggtg ccagaagctg caccgcctac 240
ttgcgtctac gtcatgcgag cggatgctgg cgccactctg caagcaaaga tagatgaatt 300
caagcccaat ctttcagatg atagctgac 329

<210> 51496
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-H7

<400> 51496

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gatggacgga gcatacgggt taatcatgct aacgagaaga ccggtggctt tcgtggcggc 120
ggtggctatg gtggcggcgg ctatggtggt ggtggaggct atggtggtgc tggaggaggc 180
ggtggatacg gtggcggcca ctatggtggt ggtggtggca gcggtggata ctgtggcggc 240
gactatggtg gcaactacag caacaggggt ggtggtggtg attatggagt tgctggtgga 300
ggtggaggca actttactgc tggaggtagc gacagctttg ccaacagtaa ctatggttct 360
gacagtagtt ttggtggaac cggtgctgga ggctatgatg caaccggcgg ttccacaggc 420
gaagatgggt tctctggcac acc 443

<210> 51497
<211> 448
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-013-Q1-K1-G2

<400> 51497

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gcgggcagct gccgcactgc tcgtggccgc cgccgtggcg gtgtccgtcc tgggtggtggg 120
cgcggcggcg gtgtgcgaca tgagcaacga gcagttcatg tcgtgccagc ccgcggcggc 180

caagacgacg gacccgccgg ccgcgccgtt cgcaggcgtg ctgcgacgcg ctggcggggg 240
cggacctcaa gtgcctgtgc ggctacaaga actcgccgtg gatggggcgtc tacaacatcg 300
acccaagcg cgccatggag cttccggcca agtgccgnct cgccacgccg tccgactgct 360
agcagtgtgc tagccaagcc aagccaagca gggaggcccc cggcattgct agctgtacgt 420
gtctgtgtgt gcatctgcag caggggtgc 448

<210> 51498
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-E9

<400> 51498

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acgccttcca cggcgacaag gccacggcg gcgtccatga cggtagcgag atcgtgctct 120
ggaagtgggtg cgagggcgac aaccagcgct ggaagatcct cccttgggtga acgaacgaaa 180
gaaactacta gctggtaccc taataataat tctgctggct gcggcgatcc caaaataaaa 240
gaggccgggt gcgatgcac tcggacttct cgagtgggtg ttgcgtcaga cagccagcca 300
ctgtggggct agtggttcaa catttgtcag cctgcttgcg cgaggaaggg gggtcactga 360
ctcaagagaa gggcctggtc ataggctgct gcattatgaa tttctgatga tggctta 417

<210> 51499
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-F1

<400> 51499

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ggaccaatth gatgatctga agaagacctg gcttatcaaa aggtgtcgga caatgaatgc 120
taaactaagc tatctggagc atcatctatt gcgtgacact tacaccaagg acacagtacc 180
agcactgcac aggatcagga agtatcttgt agaggccaca aaagaagcat ccaattctta 240
taatgaagcg gtttcgcggg tgcttgagta ccagggtgta gatccacggg tcgatgtgat 300

tgcgaggcag taccacgaga ttgtaaagaa actggagggc atgcagtgga caattcacca 360
 ggtggagatg gacctgaaac ctcaccatga ccacgcagct gtttaagtcc acatctgttg 420
 gaggccatgt ttattacctg aatgcagc 448

<210> 51500
 <211> 378
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-013-Q1-K1-F10

 <400> 51500

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 cttgacggct gctgatgcag ttgcaaccaa tgggtgtgaac cctggaatt ggagagacac 180
 ctctactgat ggtattaatc tgcacatgtc acaacacaca agttaaatca atacctctga 240
 atgggtggcc tttaacttct cagtgcctaa aattgggtata atttgaattg ttgctatctc 300
 actgtgttgt gtactcctc cgtttcgttt tagttgtcgc tggatagtgc aaaattaaac 360
 catncagcga caactaaa 378

<210> 51501
 <211> 393
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-013-Q1-K1-F11

 <400> 51501

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 gagcattttc ttgccctgca acttggtttg aaaccaggaa tgaaggtttt agatgtgggc 180
 tgtggaatag gtggaccact gagagaaatt gcaagattta gctcaacttc agttaccgga 240
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 agtggaacat gtgattttgt caaggcggac ttcatagaaga tgccgttcga tgacaacact 360
 tttgatgctt gttacgcat tgaggcaaca tgt 393

<210> 51502
 <211> 364
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-013-Q1-K1-F12

 <400> 51502

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 acaggacacc ttatctacaa gcttggaggc attgacaagc gtgtgatcga gaggtttgag 180
 aaggaggctg ctgaaatgaa caagcgggtcc ttcaagtacg cgtgggtgct cgacaagctc 240
 aaggctgagc gtgagagagg tatcaccatt gatattgctc tgtggaagtt tgagaccacc 300
 aagtactact gcacgggtcat tgatgcccct ggacaccgtg acttcatcaa gaacatgatc 360
 actg 364

<210> 51503
 <211> 445
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-013-Q1-K1-F2

 <400> 51503

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 ctggtgggtg ccaaccacgc gaacaccaat gctcttatct tgaaagaatt tgctccatca 300
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<210> 51504

<211> 435
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-013-Q1-K1-F3

<400> 51504

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catggccccc tgggtgcagtg ggtgccagat gatggccccc gtgtacgcgg actgggccag 180
caagtaccct tccgcggtct tcctcgaggt cgacgtggac gaactgctgg aagtcgcgaa 240
gatctacggc gtccatgtga tgccgacctt ctgcttcata aggaacggcg agacgctcga 300
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tggcactacg acggctcctg cctcggcgtc cgcctaattc aggagatgtg atgtgtagca 420
aatagcgcgc gcgca 435

<210> 51505
<211> 436
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-013-Q1-K1-F4

<400> 51505

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gaagttcttg tatgacaact gggactgttg tcgcatacgc acttgagtac aatgatgaga 180
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ttgaagggga cagtggaagc ctcataatct taacaggaca agacggtgag aagccgcaac 300
ctataggaat tatatgngt ggtacagcta accggggaag gttgaaactt aaaagtggcc 360
agggccgga gaactggaca agtggagttg atcttggccg ncttcttgat ctcttggagc 420
tagatctgat cacaac 436

<210> 51506

<211> 286
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-013-Q1-K1-F5

 <400> 51506

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 aaaaaaaaaa aaaaataaaa aaaaaaaaaat aaaaaaaaaat aaaaaaacaa aaacacaata 180
 taaaaccctt atattatcca ccaaaaactt aaataaaaaac atcttatatt catccaataa 240
 ataaaattta aaaggaacac tgtaaaaaaa cataatcatt ataaaa 286

<210> 51507
 <211> 432
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-013-Q1-K1-F6

 <400> 51507

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 tggttggaag gtatactggc ctgtcagact cctacctatc tgttataaag gctcttttgc 180
 atgcgtcggt tgctttggac aggaaacttg tgggtggactg gggttccttc tgtgatcttg 240
 aagattctac agcaaaagag actcctgacg cctatgaaaa ggcatgggag tcgttgaagg 300
 gtgcagatgg tgtgttggtg ccaggaggtt ttggagacag aggagtccaa gggaaaattc 360
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 aaattgcagt ga 432

<210> 51508
 <211> 443
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-013-Q1-K1-F8

 <400> 51508

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 tggctgatta attaggaaag ctagtgaggg actaccttac ccgaaagggg caagggcagt 180
 aggggagtggt tcagtgtagg gaggtccttg gttgattttg ctgcgatggc ggtcagccaa 240
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 gtaaaggcct cgtagtgtta ccctgcctcg cctcctcggg agaggtgtat gggaagtcgc 360
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<210> 51509

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-F9

<400> 51509

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 actcatgtgg tgattctggc ggaaagaaca agaaagcaaa gaagactcgc ttcactcatg 120
 cagtaaaggg aaagggcaaa tccaaagtct gatgcttggg gtacatagtc ggcagcattt 180
 tgacaagaaa gcgtccatta accagctcct gatgcctctc cttttgtacc atcttgccaa 240
 ctccctcacc cccccagct aagggtgctga agaccgctat gaaacgcatg ctgatagacc 300
 ccatagttgt ctctgcctc aatgctccta aggagttagc cagttaggtt tcggactcct 360
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<210> 51510

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-G1

<400> 51510

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cccaaaaaaa tgatcttaag gtattaagtt ttaactcagt ctcccacatg gcaaaattct 180
 tgtctgaatt ttcttttaaaa agtgcacttt tacttttaat tgtacagaat ctggagaatt 240
 gtagagtatc aagttaattt tgttctgttt aagatatgta agaaagtaca taaatgtact 300
 ttaaattggg gaatattttg tttatagaaa gacttaaagc ttcaattttg tgttgatttt 360
 ttagattgat accatttt 378

<210> 51511
 <211> 391
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-G11

<400> 51511

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 gggcagcgcc gcggctcggc ggttcgcgtg ggccgagatc gagtccgtca cggcgggggtt 180
 ctgctccagg gtcacgcgcc agggcggcct cagcacctg tacctggcct gcctctctc 240
 ctcccgctc ggcgccgtca aggtgcagcg cagcagcgag cgccttcacc gcgccttcg 300
 ccaggagcgc gacgtgctcc tcgcgtccg acaccgcac atcgctccgcc tgctcggata 360
 ctgcgacgaa cgagaggaag gcgtgttggt g 391

<210> 51512
 <211> 379
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-G12

<400> 51512

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 gtgatgatac tcctgactat actattttcg ttggtgattt ggctgcagat gttacagatt 180
 acttgttaca agagacattc aggggttcatt atccctcggg gaaggggtgca aaagttgtga 240
 ctgataaatt gacaatgcgt accaagggtt atggatttgt gaaatttggc gatcctacag 300

agcaagctcg tgcaatgact gaaaatgatg gaaatgcctt gtctttcagg cctatgcgta 360
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<210> 51513
 <211> 440
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-013-Q1-K1-D3

<400> 51513

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 gatccgcgac gggctcaagg ctgaccccaa gaagtaccgc aagatgaagg agaggcttgt 120
 cggcgtctct gaggagacca ccacgggtgt caagaggctc taccagatgc aggagaccgg 180
 cgccctcttc ttccctgcc a ttaacgtcaa cgattccgtc accaagagca agtttgacaa 240
 cctgtatggt tgccgccact cgctccctga tggctctgatg agggccactg acgttatgat 300
 cgccggaaaag gttgccgtgg tctgcggata cggatgatgtc ggcaagggtt gtgctgctgc 360
 cctcaagcag gctggtgccc gtgtcattgt gaccgagatc gaccccatct gtgccctnca 420
 ggctctgatg gagggctctc 440

<210> 51514
 <211> 443
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-013-Q1-K1-D5

<400> 51514

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 tcctgcaact gagaagctta aggttctcca cttccacaac aacatgacgg gagatgaagg 120
 tgctatgtat attgctgaga tggttaagcg ttctccgaat gtagagagtt tcagggtgctc 180
 agcaacaagg ataggatctg atggtggagt cgcattgtct gaggcattag ggacatgcac 240
 tcgcctgaag aaacttgatc tcagggacaa cttgtttggt gttgatgcag ggtagctctc 300
 cagcaaaacc cttccaaagc ttctgatct tgttgagctt tatctcagtg atctcaatct 360

agaaaacaag ggtactatag caattgccaa agccctcgaa cagtcagcac cacagttgga 420
ggtccttgaa atngctggaa atg 443

<210> 51515
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-D6

<400> 51515

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gatggtgaca gaaggcaacc atgagaagga gcacattcca ttttttgagt caggatttca 120
atcttataat gcacgatgga aaatgcctta tgaagagagc ggatctagat caaatttgta 180
ctactctttt gaagttgctg gtgcacacat cataatgcta ggttcataca cagattatga 240
tgatagctca gatcagtatg cttggctaaa ggctgatctt gccaagggtg atagaaagag 300
gacaccctgg ctcatgtgtg tgttgcacgt accatggtac aatagcaatt gggctcatca 360
gggtgaaggc gacagtatga tggcttcaat ggagcctttg ctgtacgctg ctcatgtgga 420
tatggtaata gcaggtcatg 440

<210> 51516
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-D7

<400> 51516

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atcttataat gcacgatgga aaatgcctta tgaagagagc ggatctagat caaatttgta 180
ctactctttt gaagttgctg gtgcacacat cataatgcta ggttcataca cagattatga 240
tgatagctca gatcagtatg cttggctaaa ggctgatctt gccaaggctg atagaaagag 300
gacaccctgg ctcatgtgtg tgttgcacgt accatggtac aatatcaatt ggtctcatca 360
aggtgaaggc gacagtttga tggcttcaat ggagcctttg ctgtacgctg ctcatgtgga 420

tatggtaata acatgtcatg t

441

<210> 51517

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-D8

<400> 51517

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agaacctaca gagccatgat aataatgaaa tctatgaaaa ggctgtgaag cttcttgaga 120

cttactggat ggaggaggaa gatgatgcaa tggctactgc tggggaagct gtcctgctg 180

tttttgactt tagccaaggt ggcaaccctc ctgggtggtg tttgaacctc aactgaatac 240

agtatttgac caaaaggggtg ttaattccct catgacaacc tagtctggtc gattccatgt 300

gggataatgg tttgtggttg gtccagtaaa ttcgagattt caaggagat gggttagcat 360

tattcccaag ctgtcatgga tatcagtatc gcagggtctg taacaggacc ataatcgctg 420

aacatgagtc tgggtttttg agc 443

<210> 51518

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-D9

<400> 51518

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caagactaag ccatccgagg agcacgtgat tgcgggatgg gcgccaagg tgaatgcata 120

agagccttgt gctttggtgc tacctggtgg actccatcca tttatcttat cagtctttgt 180

cagtgggtgtg gataggtgtc aagtctgtag cctagatgca tgattcagtt ggaattatgc 240

agtgccgtgt ctcgagtact cagttctggc tgttgcggtt gtgcatctta ccttctgttg 300

ctggttttgt ttgaggccat gggcatctct tggctctatg ctgtgagagc gctgtaatgt 360

gggtaccaaa taatggagct gcttttatgc t 391

<210> 51519

<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-E1

<400> 51519

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aaggtggcag gagagggtta gtgccacaag tacagccggc gcaagccaga caatggatgg 120
agctacatgg tcgaaaagct tggctcctcag ggaaagcgtg gtggaggagg gggctggaag 180
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aagcgggaga ctccaaaacg gcggcggagg ataattgcac catacaagtg acatggacaa 300
cttcagtttg ctgaaatgca aattttctca actgtctttt gacattgtcc agcagggtg 360
aagcaagaaa ctgtgaagta gtttggaaac gccagaacag ctctgtttt tttcacagca 420
cagtagatgg tttgatgtg 439

<210> 51520
<211> 366
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-E11

<400> 51520

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cctacggcga ggtcctcgag tcgaagatca tcctggatcg ggagacgcag aggtcccgcg 120
gcttcggctt cgtcaccttc tccacggagg acgcgatgcg cagcgccatc gagggcatga 180
acggcaagga gctcgacggc cgcaacatca ccgtaacga ggcccagtcc cgcggcggcc 240
gtggaggcgg cggtggcgga tacggtggcg ggcgccgtga tggaggcggc tacggcggtg 300
gcggtggaag ctacggcggt ggtcgtggag gctacggcgg cggtggggga tacggtggtg 360
caaacc 366

<210> 51521
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-E2

<400> 51521

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aggtcttgct tttgctgaag aatatggatg tctgtttctt gagagcagtg caaaaacacg 120
agaaaacgctt gagaaatggt ttgaggaact tgcattgaag attcttgagg tgcctagtct 180
cctagaggaa gggctcttctt cggttgtcaa gaggaacatc ctgaaacaga agcaggaaag 240
tgatgcaaag aacggtagtg gatgctgtca atagatgtat gtgctgatcc acaccacacg 300
gttggtcttc ttcgtgtgag ctgccctgat tgtctgctgt acatgttctt gtgagtaaga 360
agggcgagca taattgattt gtacaaaaaa aaaataaatt ataattatta t 411

<210> 51522

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-E3

<400> 51522

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gacgtccga ggccatcaag ctcatctggg cccacatcaa ggcccacggc ctccagaacc 120
cagccaagaa aacggagatc aactgcgacg ccacgctcaa aagcttgttt ggcgggaggg 180
acaaggttgg gatgctggag atcaacaggc tactgaacgc tcacttcccg aagaactagc 240
aagcagcagt ccgtggtgcc agtgatcgcg ctttggtaaa ggactttctt gtggctggcc 300
tcttggtgct catgtgaagt cccaagtccc actaggtggg tacacccgaa aaccatgtga 360
tgccattaag acttacagac tttgttcagc agttgggttt ttgggcgtga tgcattgtaa 420
aaggatcccc agtgtttccg tttc 444

<210> 51523

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-E4

<400> 51523

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 tgctctgata atacaataaa gatcattggc gtaagtggaa cctcacacca gcagcttgca 120
 actttgagtg gacaccaggg ccagtatgg caagtcgcat gggctcatcc caagtttggg 180
 tccatgcttg catcctgcag ctacgacggc cgagtgatca tctggaagga aggaagcaag 240
 cctgatgaat gggcactggg acacaccttt gctgagcaca agtcctccgt gaattccatc 300
 gcgtggggcg ctcattgagc gggcttatgc ttggcttggg gttcatcaga tgggaacatt 360
 tcagtcttca ctgctcgttc tgatggaggg tgggatacca cgcgtattga tcaggcgcgt 420
 ccggttgggtg tgacctcagt ttcttgggc 449

<210> 51524

<211> 281

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-E5

<400> 51524

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 caatatgttt tggaattaaa atatactact actactacta aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaaaaaa aaaaaaaaaa aaacaaaaaa aaaaaaaaaa aaaaaaaaaa aagaaaggca 240
 aacaaaaagg aacccaaatt taatccacac ggacttggaa a 281

<210> 51525

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-E7

<400> 51525

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 tgatctgaag cgtttttcga taatatatga tcgaagtggg aggtctaagg gaacagctga 180
 agttgtatctt gcaaggcggt ctgatgctgt agcggcgggt aagaaatata acaatgtcca 240

acttgatggt aagcccatga agatagagat agttgggacc aatactccaa ctgcatctgc 300
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 tgctgcccca gcaggtgtgc cgcagcgaag acctcatcag aggggtggga ggcgtagtgg 420
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<210> 51526

<211> 445

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-013-Q1-K1-D2

<400> 51526

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 ctcaccgect cctccagctt ctactgctcc tcgccgcgcg catgaccacc gcccggtccc 180
 agaccagtc accagccgcc gcgccatcca cctcacctc ctctaccgcc gccgcgcgcc 240
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 ccgcgcgctc cccgtcctcg tcccacgcgc gcgccaagct cacctncccg gccgncttcc 360
 ccgcgccccac cactcnccg accccaccga cggcgactgc ggcgctggtt cttctggccg 420
 cgctcgtgac ggtgggtccg atggt 445

<210> 51527

<211> 417

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-013-Q1-K1-B9

<400> 51527

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 catctatatg agattacaga aactgaggct atgaagtatt tgttgactgc agtatatctt 180
 gttgcaattc aatattacac cagaattggt ggcaagggtg ctgtcaattt gataaagtat 240

gaaaacaacc aaggagaaga atcgagttcc gctagtttag tttataaggt ctttgggtctt 300
tacttttatgc agtcatatat tgggttattt taccatgctt cattgtatcg tgatatactg 360
gcccttcgnc aagtcctcat ccagcgtctc attgtgtccc aggtaatgga aaatctg 417

<210> 51528

<211> 442

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-013-Q1-K1-C1

<400> 51528

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ccgtggccgg acgagacggc cggcagacct acatcgcca catgtcccat tccgccatgc 180
cggacgagtt cgcggagcat gaggaatggt acgcgcgctc gcttcaggcg gtgtcggatg 240
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gcgcggaggg cgcggcgctg gagtcgcagc caggggtgat cgtcgtcaac ccggaggtgc 360
ggtacgagct gcacaccacc cggacgcccg agttcctggg gctggacggc acggacgcgc 420
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<210> 51529

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-C11

<400> 51529

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cagccgccgc cctaccaac gcgcagttca cggagatggt ggccggtcag caccgcgtcg 360

tctactacc

369

<210> 51530
<211> 363
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-013-Q1-K1-C12

<400> 51530

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gcctcacccc gagccagtcg tctcgttagg gtttcgccgc cgccgccgcc atgcctcgcc 180
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cac 363

<210> 51531
<211> 393
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-C2

<400> 51531

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agcaacttgc atgcaaaatc aaaggaaact gaagaagctg aactcaaaat gctgacaaag 180
agtttaaatt tcaaggcatc accaatgccc agcttctata aggaaccaac tagtcctaag 240
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<210> 51532

<211> 79
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-013-Q1-K1-C3

 <400> 51532

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 cctctgtcnn ngcgcatc 79

<210> 51533
 <211> 437
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-013-Q1-K1-C5

 <400> 51533

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 ggaatccaag gggaaatcgc catgggggga gcagggagat gaggtcgccg acctggcctg 360
 gtgggggtttc tgcattcgcc acgacaggga gaaatcccag aaggaagacc acgtgngga 420
 gcagccgtcc gtgcggt 437

<210> 51534
 <211> 445
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-013-Q1-K1-C6

 <400> 51534

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tacgtcatcc tcggcggcgg catcgcgggcg gagtacacgg cgcggggagtt cgccaagcag 180
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gcagctggag caaactttac atatg 445

<210> 51535
<211> 443
<212> DNA
<213> Zea mays
<223> unsure at all n locations
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<400> 51535

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tgtccataat gaggttgaag ataggcataa tcatgactgg atgctgcgaa gagcaaactt 180
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gttgagttca tcaagcagtc agataagtca gggatccaaa cccaacaatt ctgagatggg 300
gcttagcttc aatatgtgca agaagattgt gcagatgatg aatggcaata tttggtcagt 360
atcagattct aaaagcatcg gagaaactat catgctagtc ctncagttcc agttggaacc 420
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<210> 51536
<211> 439
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-013-Q1-K1-C8
<400> 51536

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agacagacta cagggccagg ataaggctga ttaaccaaga caaaaacaag tacaacacac 180
 ccaaatacag atttgttggtg cgatttacca acaaggacat cactgcccaa atcatatctg 240
 ctagtatagc gggtgatatg gctcttgctt ctgcctactc gcatgagttg ccacgatatg 300
 gtcttgaagt tggctcgacc aactatgcag ctgcctactg cactggcctt ctgttggtctc 360
 gccgtgtgct caagatccgt gggttggtatc aggagtacga gggcaatgtt gaggccactg 420
 gtgaggactt ctcttgatga 439

<210> 51537

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-C9

<400> 51537

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 tcagggagcc gatgtgctga ttctagatct atcaacattg cgagacgcta cagatgactt 120
 tgctgaaagc aaaatgctcg gtaaaggagg gtatgggtatg gtttataagg gagtcctgcc 180
 tgatggccaa gaaattgcgg taaagaggct ttgccagagt tctcgacaag ggattggaga 240
 gctgaagagt gagctagtagc tgggtggctaa gcttcaccac aagaaccttg tgaggcttat 300
 tgggtgatgc ctgcaagaac aggagaaaat acttggtgtat gagtatatgc ccaatcgaag 360
 ccttgacacc attctgattg actccgagaa gaacagagag ctggattggg gaaagag 417

<210> 51538

<211> 423

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-013-Q1-K1-D1

<400> 51538

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 tggcacaaca caggcaagac aatgtttcgc agtgagaggc gtgtaccctt tgatggggag 120
 tactgatgag gccgaaactg gtgggctaac aaaggaagag tatgggataa aacttgcgat 180
 gagctatggt cggtcggttg gcatagtga gcttttcgac aggttgataa tctttgaaaa 240

gattggtgat tcttctgttg tcaagatcat tgagtgtgaa ggtaggcat tagatgattg 300
 atacctacaa cccatgctgt agtttcatgt atcgcatggg agattacctn cagttccatc 360
 tcacttattt aaccaagttc caagtagagt acagcaagag cacaagatat cttgttaggg 420
 aat 423

<210> 51539
 <211> 420
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-013-Q1-K1-D10

<400> 51539

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 acaccggtga cgccgacaga ggggacggtg atcgcgatcc acagcctgga ggagtggagc 180
 atccagatcg aggaggccaa cagcgccaag aagctggtgg tgattgactt cactgcaaca 240
 tgggtgtcctn cgtgccgcgc catggctcca atttttgctg atatggccaa gaagggtccca 300
 aatgttngtn tcctgaaagt tgatgtggat gaaatgaaga ccattgctga gcaattcagc 360
 gtagaggcca tgccaacatt cctgttcatg agggagggcg acgttcagga cagggtcgtt 420

<210> 51540
 <211> 187
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-D12

<400> 51540

cccacgcgtc cggctcttctg ataccattga caatgtcaag gccaaagatcc aagacaagga 60
 aggcacccct ccggaccagc agcggctcat ttttgcccgc aagcaactcg aggaacggcc 120
 ccacgctggc caactccacc atcaaaaaga gaaccacctt caattggtgc ttcgtcttaa 180
 ggggtggc 187

<210> 51541

<211> 434
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-013-Q1-K1-B7

 <400> 51541

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 aactctgttg tcatctagcc atgaaggata ctaccctggt gaacagaccg tacacttcaa 180
 caatactaaa gatgctgctg tccgtagaga accaggtatt gagcattcag cagtacctgg 240
 tctaagtcag gggagtgcta gttctgacaa gaaaggaatg gaaattcatc tgcctgaaga 300
 agataatttg ttaccatga gtgattctct gcttgggtcaa aattctgata ttttggcatc 360
 agtaggatcc agcaggggtg aagggctatt gcctgaaaag gcacttgata acctcagcta 420
 taggtttcaa agtc 434

<210> 51542
 <211> 392
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-013-Q1-K1-A3

 <400> 51542

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 tgactgagga ccctttaatt ggtcacatgc ctgcgtcatgg gcaagctttg cctcaggcag 120
 actaatacca gaaaggccaa catgcaatgg gagtggagag atggcgtgag tagcgtgtac 180
 cctccgtggc aagaggctgg acggtggtgt atctgtgctc tcggttggtg tgaaccagc 240
 ctggtcttaa gaaaccgggt ggagagttga catatgcaag ggttaagtgc tacatatgtc 300
 gtgtgattgg agatcctcag ctgagtatta atcgattcgg atcgtcgtta cttctcagat 360
 atgaagactt ggtcactgac ttacacgtag ca 392

<210> 51543
 <211> 444
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-013-Q1-K1-A5

<400> 51543

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gttcaaagcg aagatgaaga aatcaaaggg caaacgggat cttgacacgt gcccctcacc 120
aacaggttcg tcgccgacag attcagcaac cagagcatga aaagggtcaag agggccagtt 180
gcttacccta tgaccattgc ccgtgtttta ccagggctgg tcaccattgt aaatcattag 240
tgttttcttg ccatcagccc ctaatcetta ctgtctctgt cagagctcat actcatgtaa 300
gcatcaggca actaggttgc tgatggctct aggctgaaaa aggatactga gaataaactt 360
ctgggtgttg gttataccta tatcctgaac atggagtggg gtagatgagc tttaggactt 420
gcagtcttag canaatttcc cagt 444

<210> 51544
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-A6

<400> 51544

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tgccagggtca atacttccaa gatgtgaata gggcgaggaga cattggtgag gctcaaatag 120
ccaagcttac tgggttttctg gtcttctgcc ttctgaatgc aactgctctc ttcatttccc 180
tcgcggtggt cgtcgtgcag atcaccttgg ttgcctggga aactggtgcc cagaagcaag 240
ttatcaagat cgtaaataag ctcatgtgga ccgcatgcct taacacaagt gcggctttta 300
tctcactggc atatgttgca gatggcccg cgcagtgcct gatggccttc acagtatcag 360
ccatcgaggg tccgatcatg attggaacct tgctgttctt agcctatctg ttgatgcgcc 420
cacggt 426

<210> 51545
<211> 446
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-013-Q1-K1-A7

<400> 51545

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tgcaatgccca ggtgccctta tacgtggcga caaagatggc atccatcagg aagtcttctt 120
tcatgggtccc atctgctgac acctatgctc gtgctgccgt tcgtcacatt ggatacgagc 180
ctaggtgcac accatactgg ccacactctg tcgtgtgggt cttgatctcc attcttcccc 240
agtcctttat cgacagcgtg cgcttgggca tgtgcattaa gatccgcaag aaggggctgg 300
ccaaggacgc caagaagaag gcgctgtgat tgatgtttca gaatgcatgt tcagattcgc 360
acatttcttc atcacctgta gtagacacgt gccttgctgt agtcacttta ttagctacca 420
ttacctnctg agtctgttaa gaatcg 446

<210> 51546

<211> 447

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-013-Q1-K1-A8

<400> 51546

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aatcttgtgg agatgtttta tgaccttgaa aacacaagag tgaaatgcac attgatatca 180
actcgtgctg gatccctggg tatcaacctt catgctgcaa atcgctgggt tcttcttgat 240
ggatcatgga atccaacaca tgatctgcaa gccatttatc gagtttggag gtatggccag 300
accaaacctg tatatgccta ccgnctaata gcacatcaaa caatggaaga gaaaatatat 360
aagcgccagg tgacaaagga aggccttgca acaagggtgg tggatagaca gcaagtttca 420
agaaccatct tcaaagaaga gatgctt 447

<210> 51547

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-A9

<400> 51547

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cgggggccac cagctcacc ctcgcagcta cctcccgagg caagacttct acgagcacc 120

tgccecccca tggccgggtc agcttcagcc acaccacgtc gctgcagacg gcgcccgggc 180

accgcggggt ccgagcaggg tgggcgggtgc gcgtgctccc gctgacggag gagaacgtgg 240

agaaggtgct ggacgaggtg cggccgagcc tgatggcgga cggcggcaac gtggcgctgc 300

acgagatcga cggcctcgtc gtcgtgctca agctgcaggg cgcgtgcggc tcctgcecca 360

gtccaccat gacgtcaag atgggcatcg a 391

<210> 51548

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-B11

<400> 51548

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cgaaagaaac tactagctgg taccctaata ataattctgc tggctgcggc gatcccaaaa 120

taaaagaggc cgggtgcgat gcatctcgga cttctcgagt ggtgtttgcg tcagacagcc 180

agccactgtg gggctagtgt tccaacattt gtcagcctgc ttgcgcgagg aagggggggtc 240

actgactcaa gagaagggcc tggatcatagg ctgctgcatt atgaatttct gatgatgtct 300

tatgtctgta ctctgaatca actatgtatg agatctcatc tcctttctcc tactgaatga 360

atgaatcatt attggctttg ctttgcttca cctgcttgaa aagcatgcat tgtat 415

<210> 51549

<211> 444

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-013-Q1-K1-B2

<400> 51549

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ggcggatgcg ctatcgggta cggtgaccga caccgagtgc atccacgagt tcgtgcccta 120
 tgagggcgac accgtgtccg ggaacttcgt cgtcgtcgac cacgacatct tctggagctc 180
 cgaccacca ggaatcgacc tcacggtaac gtcaccaggt ggcaacactg tgtacacatt 240
 gaagggaaaa tctggtgaga aatttgagtt taaagctcca agaggtggca tgtataagtt 300
 ctgcttccat aaccatattg gagcacctga aactgtttct ttctacatcc atgttgggca 360
 cataccaat gagcacaatc tggcgaaaga tgagcacttg gaccctatca acngtnaaat 420
 cgncgagctg aaagaagcat taga 444

<210> 51550
 <211> 441
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-B3

<400> 51550

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 acgatggcag tcttgcaagt tgctgtgtgt gcccctcccc ctgtctctgt gattgggttc 120
 gagggatttg agaagcgctt tgagatcagc ttctctgagg cacctgtctt ggctgacccc 180
 agcgggaaggg gactgcgtgc gctctcgcgt gccagatcg actctgttct tgaccttgc 240
 cgggtgcacca ttgtgtccga gctctcaaac gaggacttcg actcttatgt cttatctgag 300
 tcgagcctgt ttgtctaccc atacaagatt gtgatcaaga cctgtggaac tacaaagctt 360
 ctgctcgcta ttccgaggat ccttgaactt gctgaagagc tcctgttgcc actcgtcgca 420
 gttaaatact cccgtggaac g 441

<210> 51551
 <211> 284
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-B4

<400> 51551

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 gattatgggc tatggaacct ggagtgccgt ggtgctgcaa acatctcatg ttctattctg 120

aaatcttttt agatgtataa tacgtagtag ttgaattttc tgtaaaaaaa aaaaaaaaaa 180
aataaaaaat aaacaaaaaa aaaaaaaaaat aaaaaaaaaa aaatatataa taaaaaataa 240
aataaaaaat agtcgttctt tttaaaagaa ccaaaaatta aaag 284

<210> 51552

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-B5

<400> 51552

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acggaagcga taattgatcc tgcagcaatt tttgcgatgc tggtcggtag cgagcttttt 120
gaggactaca ttggtcagct ggcgatggca tccatggctt cacttgatgg ttttactgaa 180
aacgaacaga tcgatccaag aaggttgcaa gagcaaatgc gagttgtaca aaaagaaaga 240
gaggagaaac ttgcagaggc actaaaagat aggttgcatc tttatgttca aggaaacaaa 300
gaggaattta tccagtatgc tgatgctgag gttactagac tctctaagtc cgcatacggc 360
gttgatatgt tgagtactat tggttatgtg tattcgagac aagcttctaa ggagcttgga 420
aagcaagcta aatatcttgg tgttcc 446

<210> 51553

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-B6

<400> 51553

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ttaattaaga ggtagtgtgc atggtgaaac aaagattatt aacatggctt ctagctgcta 120
ctgctactgc tactagcaat ttttgccctc ctggtctggt ctgccaaggc taccgctgct 180
gtatgaataa cttggagatc gaccgaaaaa ttacatgcat gtaagtagaa ggggttaata 240
aaggtggtat gcagacgaag atgcttttat tgaactaggg tttaagtagc tagaaacgga 300
tgggaactgt actttaagtc attatgttct gtgctcttag gggaacatgg ctcatgcgct 360

taaccttcaa taaagactgt aaagatgagt acgtggatcg gaaaaataaa gagcttggaa 420
agcaaaaggg cggtc 435

<210> 51554
<211> 404
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-013-Q1-K1-A10

<400> 51554

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nccaagattg ttatcatagt ttaccttta catgactaac cttacacatg gttttgtatg 120
actttctttt tcagatgtga cctgtttgat gtcattgttg agatggatcg catactgcgc 180
ccagaaggaa ctgccgttat acgggcctcg ccagacgtag tagccaaggc agcacagatc 240
gtcagtcga ttccgttgga ggcacagggtg catgacagtg aaccagaatc aggcagtacc 300
gagaaaatac ttgtggctac caaaacattt tggaagctgc cactaacaaa acaataggct 360
aatgcgagtt tgaactttga acccttttca cttgcgcttc ctta 404

<210> 51555
<211> 294
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-G11

<400> 51555

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gccggcaggc gagcgatttg attcgacatg aatcccgagt acgactacct tttcaaactt 120
ctgcttattg gtgattctgg tgttgggaaa tcatgcttgc ttctcagatt tgcagacgat 180
tcttatttgg acagctatat cagcacaatt ggggttgatt tcaaaattcg cacagtggag 240
caagatggga agaccataaa acttcaaatt tgggatactg ctgggcaaga gcgc 294

<210> 51556
<211> 356
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-G3

<400> 51556

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tttatcaact cacctggagg ctctataaca gcagggatgg gagtatatga tgctatgaaa 120
ttttgcaaag ctgatgtgtc aactgtttgc tttggattgg cggcttcaat ggggtgcattt 180
ttacttgctg ctgggacaaa gggtaagagg tactgcatgc caaatgcgag gattatgatc 240
catcagccat caggtggcgc tggcgggaaa gtcacagaga tgggactaca gataagagag 300
atgatgtacg aaaagattaa gatcaataaa ataatgtcga gaattactgg aaaatc 356

<210> 51557

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-G4

<400> 51557

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gtcttcgccg cccatggtgg cattatcttc aaatggctct aaagatagcg acaacgttag 120
ttagtcgcaa gagaaaggcc gcagttctgc ggctgcgagg ggaatagagc agtatgtcag 180
ctatacaaca tctatggcat gtgctttgct cctccacttg attatagccc ccgttgtgtg 240
tttcggtttc tgttttcctg gagtttttgg ttccaggett ccgaccatgt tttgatccca 300
taaattcttc ttcagccttc gagcaactga atccatcttc gtaagtcac aaccctagcc 360
agacattgaa acatcgggaa actttaag 388

<210> 51558

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-G7

<400> 51558

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ctatagtatg tgggaaaccc taacttaggg ttgggagttg cattaataga ccaagtgatg 120

ttggacctgg cccattacac atgggtatga atgtaattac aaggggctaa ccccaaaacc 180
ctaaatggga ttctaacaaa gttgtttttt cegtgtgtgt taatcatata agtattagca 240
tttcagttga attttctact ctcaattata ttgaatgaac tgttttacia ttctagtatg 300
ttaattattc ctgggttgat gctttgagca gattgccttg cacatatata gagtcttctc 360
tatgtttttt 370

<210> 51559
<211> 215
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-G8

<400> 51559
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attctccgcc catggtggcg cttatcttca aatggctata aagatagcga caacgttaga 120
ttatcgcaag ataaccgccg tattactgcg gctgctatgg gaataccccg acatgacagc 180
tataacaacat ctatggcatg agctccgctc ctcca 215

<210> 51560
<211> 239
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-H10

<400> 51560
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agggcaaccg gcgtacggga tccaggatcc catcctcctt cctcctacat gctacctctt 120
atatattgta tcctgaaacc aatttacagt ccaactggccg acatcttaca aactgggtaa 180
ctccctaaac ctctcccatc tccaatctta ttgcctcat accacatttc cccttttgc 239

<210> 51561
<211> 322
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-H11

<400> 51561

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tgtgaggata aagactgccg caggaagagg cggctacatc cgtaacatct cataaccgcaa 120

cataactttc gacaatgtcc gtgctgggat tgtgataaag gttgactaca acgagcacgc 180

tgatgatgga tacgaccgga ctgccttccc agacatcaca agcatatcat tcaagggaat 240

ccatgggcag ggtgttcggg tgccctgtccg agctcatggc agcgacgtca ttcccatcaa 300

ggacatcagc tttcaagaca tg 322

<210> 51562

<211> 359

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-H12

<400> 51562

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ctgatgcattg agcctgttgt tccctggttcg ttcctgagag ctagagcaat tggccttatg 120

cccatgattg accagggtga aaaggatgac aagataatag cagtatgtgc tgatgatcct 180

gaataccgtc actacaacga catcagcgag ctgtctcttc accgtctgca agagatcaag 240

cgcttctctg aagattacaa gaaaaacgag aacaaagaag tcgcagttga tgcattcttg 300

cccgcgacaa cagctcaaga agccattcag tactccatgg acctgtatgc ccagtatat 359

<210> 51563

<211> 226

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-H2

<400> 51563

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acagaccag cggcctgcta ccaacaacac atcattggtg gtgccctctt ttagattgct 120

tattagtgtg aattcaataa taaagttttt tggatgatgt atgtggccaa ccagaaataa 180

gaagttacat ttccaaaaaa aaaactaaga tatacaactt atgaat 226

<210> 51564
 <211> 197
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-012-Q1-K1-H3

 <400> 51564

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 gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaataaa gaaaaccttt 180
 attaaactga aattaat 197

<210> 51565
 <211> 353
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-012-Q1-K1-H6

 <400> 51565

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 ctccggcccg ccgccgccct cgtcttctca tgcattggcg cagcgtacgg gaccgcgaag 180
 agcggcgctc gcgtggcgct gatgggtgtg atcgggcccg agtcgtcat gaagtccatc 240
 gtgcccgctg tcatggctgg tgtgctcggc atctacgggc tcatcatcgc cgtcatcatc 300
 agcactggga tcaaccccaa ggccaagccc tactaccttt ttgatggcta cgc 353

<210> 51566
 <211> 355
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-012-Q1-K1-H8

 <400> 51566

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 gccaacccag ctctccggtg cgcccgcgac cctgctccc gtcgtcaggg tggcggcgcc 120

gcgcggcgctc gcctcgccgg ccgctggcgc cgcgtgcagg gccgcgggca aggggaagga 180
 ggtgctcagc ggggtcgtgt tccagccctt cgaggagatc aagggggagc tcgccctcgt 240
 gccccagtcc ccagacaagt cgctcgcgcg ccacaagttc gtcgatgact gccagcccg 300
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<210> 51567

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-H9

<400> 51567

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 actgccaacg gagcaagaca tgacaaatgt gcaaataata ccagacatgg ttatggtgga 180
 aaacaacagg ggaggaccac tgggacgaca tacctttcca gaagatgaac caactttcac 240
 tgggcgatga tgctgctgga attggaaacc atgcgagtgg cgatgatgcg gttggggaaa 300
 ccatacgagt gacgatgctt tggcttcgaa atgatggtga agatgacctg gattaaagtt 360
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<210> 51568

<211> 341

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-D8

<400> 51568

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 tttatgcatg tccagtgtgc cagtttattt acagaaaggc attgcaaggc ccagtagcag 180
 caaattgcag cctgccagta aaataccaga aatcagctca caaagcaatg ccagaatcac 240
 tccagcagaa gagcagaatg gaagcacagg caccctaaatt attcaagggt ccaacaatgg 300
 gtcaacgatg aacaaccag atgcacatca tgttgattac c 341

<210> 51569
 <211> 378
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-E10

<400> 51569

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 gctgccgggtg gatattgg 378

<210> 51570
 <211> 379
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-E11

<400> 51570

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 ctcttgagtt atcattgtct ggatcatttt ttctctcttg gacttgttgc aacttttgag 180
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 tcataaacct tggtttaaga tgaagttgtg gcaatcctct tagtgctaataa ataatgctct 300
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<210> 51571
 <211> 375
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-E12

<400> 51571

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aacttcagtg ttgtgtctgt ggacgaggct caaatttctg ctaacctcat caaacatggg 180
ccattggcaa tcggcatcaa tgctgcctac atgcagacat acatcggagg cgtgtcatgc 240
ccatacatct gtggcaggca ccttgaccat ggtgttctcc ttggtggata tgggtgcttct 300
ggtttcgccc ccattcgctt gaaagacaag ccttactgga tcatcaagaa ctctggtgggc 360
gagaactggg gggag 375

<210> 51572

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-E4

<400> 51572

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gaggaacttc gtagacaaat tgggtgctatg tattacattg aatgcagctc aaagacacag 180
cagaatgtca aagctgtggt cgatgctgcc atcaaggtag taatccagcc tccaactaaa 240
ataagagaaa agaagaagaa aaaatcacgc aaaggatggt ctatgatgaa catcttcggt 300
ggaagaaaaa tgctatgctt caagtcctga atggttcaag ggggtcttac a 351

<210> 51573

<211> 380

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-012-Q1-K1-E5

<400> 51573

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ctcgggtgcgg gccatccgcc cggggctgcc cctcttcctc tacaactact ccacccacca 120
gctgcacggc atcttcaagg ccgccagctt cggcgggacc aacatcgacc cgacggcgtg 180
ggaggacaag aagtgccccg gcgagtcgcg ctttccctgc acaggtgcca atgggcacgc 240
gggaagatct acgatccact ggaagaggac gccttcncgc ccatccttca cactacgac 300
ggggccaagt ttcggtcga gctctcgtt gccgagacc tcgcccttct cgacatcttc 360
gctgacaagg atgacgcctg 380

<210> 51574

<211> 296

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-E6

<400> 51574

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cacagccact actaacaatg accatttctg aaactctgaa gtatgagtac agcctaactt 120
gtccaatttg cttggacact ttgttcaacc cttatgcgct tagctgtggg catctgttct 180
gcaaagcctg tgcattgtgt gctgcttctg tctacatctt ccagggtgtc aagtcggcac 240
ctacggaagc caaatgccct gtctgccgag cggttggtgt gtttgaacgt gctgtg 296

<210> 51575

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-E7

<400> 51575

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gacaacgttc tttctttgag cataccactg catgaggcaa ctaataaaga gcagctagaa 180
gcttttaatg agaagaaagc tgcaatgaac ttggatggaa aagaagtgtc taatgaggat 240
attgtcaggc ctagagtccc attggaagca tgcttgtcaa gtttttcagg gccagaggag 300
attccagatt tttatagcac tgcatttaat tcaaagacta ccgtcactaa gacagctggt 360

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389

<210> 51576

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-E8

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gatagctctg gcgtagataa ggcaaaaaat gattctgatg ataagaatgc tgctgatgct 120

gataaaaggg cagctaataa aactgagaga tctgaaactg cctctcctga taagaggaag 180

gatagagagc atgataagga caaacgggac aaagatcttg aaaggcatga ccgtgaacgt 240

gaaagagtac ggagggatag agagaaggat cataagcata gagaagctga taggctctac 300

agggatcgcc ttaaggagtg ggaatctagg gaaagagaga gagaatatca aaagtatagt 360

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<212> DNA

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<223> Clone ID: LIB3079-012-Q1-K1-F1

<400> 51577

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actaccaggc ctctcgtc gccctcaacg ccgggtcgtg cgggtacggc tccttgggcg 120

cgcccccaaa cggcggcctg ctgcgcgcag ccagccccga gctgtacagg ggccggcgctcg 180

gctgcggcgc ctgcttcag gtgcggtgca gggacagcga gctgtgcagc gccgncggcg 240

ccaaggtggt ggtgacggac caggcgcgga cgctgaaccg cacggcgctg gtgctgagcg 300

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<212> DNA

<213> Zea mays

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<400> 51578

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ggtgctgact cccggcgagc agggtaacat tttccttcag ccatgggcaa ggggaagact 120
cacatcaaca ttgggggtcaa tggaca 146

<210> 51579

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-F2

<400> 51579

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cagccgccgg ccattgccag ctccgcgtgt acaactacag gggagcatcc aggagaagcc 180
gggccttccg gcgaaaagcg acggcgagcg gaggcggccg gctgggacgc ggctctactc 240
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cgtgttcgcg ccgttcgtgg agctggtgaa gacgtgggat ctccccggct ggctcgtgca 360
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<210> 51580

<211> 244

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-D7

<400> 51580

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tcaccaacag cgccttcgag ccattcctcca tgatggccaa gtgcgatccc cgccatggta 180
agtacatggc ctgctgcctc atgtaccgtg gtgatgtggt cccaaggat gtgaatgctg 240
ctgt 244

<210> 51581
 <211> 407
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-F6

<400> 51581

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gatgaacaat cttgtaacgg ggcacagtcc tactgcctat tactcactat cagtatggct 180
gtacatacga atttaacaca tttgtctctc attttgtgggt cgaaaactgc tccattagta 240
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tgttatgatg gaatcaggag tgtaactggt aattacaagt atgttctgat gccttttgaa 360
atccattgaa gattttaata gaaagtgacc atctacaaag agtggtcg 407
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<210> 51582
 <211> 421
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-C11

<400> 51582

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tgcaattctg gctgctgcaa attcagcatg gggaaggtac gacatgagga ggactccagc 180
agaaaatata aatctacctc cggcactcct gtcccgtttc gacctgcttt ggatgaccc 240
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aaaccttgaa tcgccggcgc tggggttcac accactcgag ccatctgcgc tcacggcata 360
catatctgca gctagaagag tgattccttc cgctcctaga gagctcgacg aatacattgt 420
g 421
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<210> 51583
 <211> 429

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-012-Q1-K1-C12

 <400> 51583

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 tgttgatatg cctagcagaa agttgccact atatggaggg cctgccactg atccaccgta 240
 tggaaggcct gccaatgac cactgtatgg aaggcctgcc atagatccac cattcggaag 300
 acctaccaat gatcgaccat atggaaggac tgctgttgc cctccatttt gaagacctgc 360
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<210> 51584
 <211> 215
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
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 <400> 51584

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 ctctattcgg ctcatgttca ttgacatggc ttattctagt cccactgaaa ccatacgcac 180
 acgggtgggc ccgaactacg ttctaogtca attac 215

<210> 51585
 <211> 388
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-012-Q1-K1-C5

 <400> 51585

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 ggcggtatgag aaagaagcgc tcaacctaaa ctcgtggctg tcgaccagca tgcgccttga 360
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<210> 51586

<211> 343

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-C6

<400> 51586

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 gagtgcacca gctggtcggg cgtgtggacc tgcgacgacc tactcaccaa gtgcgccgtc 240
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<210> 51587

<211> 300

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-C7

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<210> 51588
 <211> 315
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-012-Q1-K1-C8

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<210> 51589
 <211> 433
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-012-Q1-K1-C9

 <400> 51589

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 cctagtatgc ttg 433

<210> 51590
 <211> 427
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-D1

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<210> 51591

<211> 264

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-D10

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ggttgatatt tgctactgat attgggccca tttgagatat gcgttgctgc taaaaaaaaa 180
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gatgaaaaga tctaaaactg cttt 264

<210> 51592

<211> 326

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-D11

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<210> 51593

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-D12

<400> 51593

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 aaaaaaaaaa aaaaaaagtg tgatatcttt ttagagtttc aatgttttaa tgatgttaaa 180
 tataaactaa tcacttttta tttgcgtaac taaatttaaa ttaatttgcg gttgttttaa 240
 aaatttggtta attggaaaaa ctttgagttt acaaaattta accgctttta aaaaattcca 300
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<210> 51594

<211> 314

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-D4

<400> 51594

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 gaagtgcgcc ggcg 314

<210> 51595
 <211> 305
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-012-Q1-K1-D5

 <400> 51595

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<210> 51596
 <211> 443
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-012-Q1-K1-A3

 <400> 51596

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 cttgagaagg acaaaatctt gctttcttta gttgagaggt taaagtctag cgacgctaga 180
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 ctttgtcagg cgaaggagga tgc 443

<210> 51597
 <211> 430
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-A4

<400> 51597

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tcaagcagag gctgcagata ctggagggaa gatcaggaac acccaacaaa caaccgctat 180
aggctatagt ggtcacattt ctacatttct gcacatcgat cgttgcaagt ttgcaacccc 240
ccacccccca atgtaaatga ttgtgtggcg agctttatgg taccatgtta gtacatgcgc 300
tgatgttgat ctgtaatttt gcaggatgg taaaactatt aatagctgac ggattgaacc 360
atgctaatat gtggagatat tgaactgtaa tttgcaggga catggtaaaa aaataaaatg 420
tgccagctct 430

<210> 51598

<211> 256

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-A6

<400> 51598

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caagcaaaaa gctgcaaata ctgcagggaa gatcaggaac acccaacaaa caaccgctat 180
aggctatagt ggtcacattt ctacatttct gcacatcgat cgttacaggt ttgcaacccc 240
acacccccca atgtaa 256

<210> 51599

<211> 240

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-A9

<400> 51599

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cttaaaactaa taacaaacaa ccaacataaa aaaaaaaaaac ctacactcta aaataatact 120

accaacaata cacatcctca tccttaactg accttttcta ctctccttc ttttttactt 180
 tccctacatt atagtattca tatctatcca cctctctcca tacatctaca tcttataatct 240

<210> 51600
 <211> 393
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-B1

<400> 51600

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 ctgctccgtc ctactcctga acaggaagct gctgcgagtg tctttggaga tgtgcttcca 180
 gaatgtttga acaggcatgg cgagaagtgg ttgtcatcaa tagttagtta cttagtttac 240
 acgtcttgca ggaatttcag gttttattga tggagaaacc ttcagaatac agtagcaacc 300
 attactacac tacagaagag tttagcatac acaagggggg agaaatagta caccatagac 360
 atagactagc acactattta caaattcaat atc 393

<210> 51601
 <211> 407
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-B10

<400> 51601

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 taagggtccat cgttctgaat caactaagag tttgtctgca aaagcttata gtagcagcta 180
 tgctgttgct gcttcagaag atgaggatgt ctgccctact tgcttgaag aatacacgcc 240
 agacaatcca aaaataataa ccaagtgtctg tcaccatttt catcttggtt gtatttatga 300
 atggatggag agaagtgata catgcccaat ttgtggtaag gaaatggagt tttgcgagag 360
 cccatgatag cctttcgggt tacatgatct cacatgaagt ctgagct 407

<210> 51602

<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-B11

<400> 51602

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tagaatgctc aatatccagg caaggagatt tttatgtgat aaatggaagg aagtgggtga 120
ccagtggagc tatggatcct aggtgcaaaa tcctgatatt aatgggaaag acagattttt 180
ctgcacctaa gcataagcag cagtccatga ttttagtgga catcaacact cctgggggtgc 240
agataaagag accattgtta gtctttgggt ttgatgatgc acctcatgga cagcgagaga 300
ttacatttga aaacgtgctg gttccagtaa caaatatcct gcttggagaa gggcgtgggt 360
ttgagattgc tcaaggaaga cttggctctg gaaagttaca tcattgcatg aggctagtag 420
gagcagcaga acg 433

<210> 51603
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-B12

<400> 51603

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tataatgatc tatattcaga ccaggacatc tacatgacac taacggaacg aagcactgga 120
ctctgatgc tatgcatcct atgcccataa ttgtcattta tactgcacta accgattgtc 180
gcccacctac acataagtca gcagtgcaca aacgttgctc aatctatact cgctgcagc 240
atatacatc tccattgcta cgttgtctac ctgttgatgc acctcatgac ccacctcaa 300
ttacattagc caacggacgt gtaccactaa tacaatcct aataggacaa gcacgtcgtt 360
atcagattgc tcaacggaca cttctggctc gaatgtaca tcattctaag aggcatgctg 420
taccagtac 429

<210> 51604
<211> 374
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-B2

<400> 51604

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ccaccagtca tgccattggg taccatgaac ccatgcatgc agtactgcat gatgcaacaa 180
gggcttgcca gcttgatggc gtgtccgtcc ctgatgctgc agcaactgtt ggccttaccg 240
cttcagacga tgccagtgat gatgccacag atgatgacgc ctaacatgat gtcaccattg 300
atgatgccga gcatgatgtc accaatggtc ttgccgagca tgatgtccca aatgatgatg 360
ccacaatgtc actg 374

<210> 51605

<211> 346

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-B3

<400> 51605

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tccgccgcgg cggcagcagg aggaggagga ggaggatag gggtagccgg ctgtggcggc 120
gcggtgacgg agcgcgagga cgaggtggag gaggccgacg cggcggaccc ccgcgggagg 180
gccgcggcgt aggaggagga gcagctgctc tcgtgaggt ggatgagctg ctccgccgcc 240
gcgagctccc gcgccgtgaa ccgcgccggg ttcggggcct gcgcctcgtc ggccatggcc 300
ccgcgcggtg gactgaggac ggatcgatcg acgcaaacgc cggcgg 346

<210> 51606

<211> 356

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-012-Q1-K1-B5

<400> 51606

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aagcgcgcga gaaaatgcag ggcggatcca gcggcatcgt gtatggtggc ctcaagtacc 120
 aggcgcggtg tatcgccgac atacgcgcgg acgccggctc gaccaccttc ctgcgccgca 180
 ccctcagcct caaagaggaa aacgaggtgc acctgatccg gttntcgccg gcggagagcg 240
 agctggtgtg cgatggcctc ttctaccacc ccaacgagat ttgggacctc aaatcatgcc 300
 ccttcgatca cagggttttc tgcacagtct acacgtctgg tgagggctat ggtgca 356

<210> 51607

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-B6

<400> 51607

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 tgccctgttca aactgttggc cttttaccgt tacactgcag cagatttttcg ctgagctggt 120
 tgcagatgat gttttcttta tgcagttgca taaggaacgc aaccttgtgt gctgcagcat 180
 cagaaaccaa caaagtttca atttccattc taatgaagcg atgtgaggtt atattgggtc 240
 aatttttggc cgatgaaaat gatctaagag aacatccttt gcctagtgtg aggggttga 300
 taacgatctg tgttcttcaa gagcttgcta gactaattat agacattgat gcagcgaata 360
 ctttcaacat acctgcatat ctgaagcaag ctttggggga aaacaaatcc catg 414

<210> 51608

<211> 307

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-B7

<400> 51608

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 caacacaaca aaaacaagag gaaagaagaa gaagaatagg cgtagacggc aagagacagc 120
 acacaaacaa agcgccggcc actctgtgga ccccgcttac gcgtccgccc ccaccccaca 180
 gggcctcctt ttctagaggg ggaccaaatt ctctcgctca ggccgatgag ctacaccgtc 240
 gtcacgggct atcccgccgc gtaccccacc ttattccccg cctgcgcctc ccccgatatg 300

gccccctg

307

<210> 51609

<211> 309

<212> DNA

<213> Zea mays

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<400> 51609

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gggtactctgc tgaagaaaag accaattggc ctgaagacta aattgtccat cttcaattgc 120

accaagagaa aggatctcca ttgactggt ggctggtgca tgtttgaggc ttggatgatg 180

gcagaagtgt catgtttttt tatgttgaac cttgtttcta aatagtaagt ctagacaatt 240

gttctgtttg aaatctgaat gaattgtggc tgggtgttgg tggactggat tacaggcaaa 300

ataaaaaaca 309

<210> 51610

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-B9

<400> 51610

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catttgatgg atggtgcaac tgttgagttt gactattccc ctcatggaa aaatgaaagt 120

gatcaaccga attggtcttc agtatcatgt ttgaagactg ctgctgatgc tgcattgttca 180

atgtatactt tgtctctaaa tcgagaagct acaccaaata ttattgtgtc atctgagaga 240

tcagtcaagt caatgactga acagcagtta gatgaaaaca gtgaaaagca tgaagaaaat 300

agtggaaggc ttgaagaaca tgggtggaaat cctgttcaaa cttcctatga tcaaattgtt 360

aatggctgca gtggaagagg gaatagaaaa ttctgcagtg gaagaaggaa aggaaaagga 420

aaatgataag gaaaa 435

<210> 51611

<211> 366

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-012-Q1-K1-C1

 <400> 51611

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 aaggctgctc ggggtaacag cagctcaata tttatccggg gctttgataa aaatctttca 120
 gaggatgaga tccggagctc tctcgaacaa catttttagtg attgtggtga gatgacaagg 180
 gtctctatcc cgactgatca tgaatctggt gcaataaaag gaatggctta catagacttc 240
 aaggatcagg actctgtgtc taaagccctt gagctcagtg gctctgacat tgggtggtggc 300
 tatgagcttt atgttgatga agccaaacca agaggcgatg gccaacgtgg tgggtggtaga 360
 tctggt 366

<210> 51612
 <211> 87
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-012-Q1-K1-A2

 <400> 51612

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 acagcggaat gcatgagtag ctactgt 87

<210> 51613
 <211> 368
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-011-Q1-K1-G5

 <400> 51613

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 cattgcagat gtgcttgggg togagggtgt taggcagact attgctggaa atatccttgt 180
 ggggagttac tgcgccttct ctaacagggg tggtttggtt catccccata catcogttga 240
 agaccttgac gagctctcca cgctcctcca agttcctctt gtcgcaggaa ctgtgaacag 300

aggaagcgag gtcattgctg cagggcatgac agtgaacgac tggactgcct ttgtggcttc 360
gacacgac 368

<210> 51614
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-G6

<400> 51614

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ggaggtggcc tggcggcgct gagggcggcg cgcgccgtga aggagacgac cgggatcgtc 120
ggccttgagg tggcgcccaa cgcgcgggag gttctcatcg ggctctacac gcgtacgctc 180
aaggagatcg atgccgtccc caaagacgag ggctaccgca aggccgttga gtccttcacc 240
aatcaccgcc tacagatctg acaggaggag gacgactgga agcgcatcga ggaccgaatc 300
ggatgcgggc aagtcgagga gtcctatcga gagggcggag acgagctgaa gtcctatcgcc 360
aaaatgattg aatgggatcc gtgggggtgtc cctgatgact acgaatgtga agtgattgaa 420
gacgac 426

<210> 51615
<211> 166
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-G7

<400> 51615

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gggaaatccc aagctgctcc acaggcccga gggtcggctg tcctcatggc ggggatcctg 120
gcgtgggchg ctgacgtggt cggccggggc ggtgtcatcg acctct 166

<210> 51616
<211> 448
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-011-Q1-K1-G8

<400> 51616

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ccgcgttcgc cgctccattt gatcgaattc ccgatggcgc ccaaggccga gaagaagccc 120
gcggaaga agccgacgga ggagaaggcc gagaagaagc ccagggcgga gaagcgcgtg 180
ccgggcaagg agggcggcga gaagaagggg aagaagaagg ccaagaagag cgtcgagacg 240
tacaagatct acatcttcaa ggtgctcaag caggtgcacc cggacattgg tatctcgtcc 300
aaggccatgt ccatcatgaa ctcttctatc aacgacatct tcgagaagct ggctgccgag 360
gccgncaaag ctgcgcgcta caacaagaag cccaccatta acctccggga gatccagact 420
tcggtgcgcc tcgtccttcc tggcgagc 448

<210> 51617

<211> 457

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-H1

<400> 51617

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gaccatgatt gctacttgtc agagatggat ttgctgggta catggatgtg gatttgttct 120
catggctagt ccatatatat tgcttcttgc ttctttcttc ttgctactgt cattctgggt 180
tgacctgtgt catcagacaa atgatgaaga cgaagaagat ggaaggagtc agagtcacca 240
tgaagcttta ctagacagaa caaaagcgaa acctggcatt catcctgtta atatccgtca 300
gaggtgttgc ccaggaatac agcttgaag ccggcaaaaa tttgtgattt tgggtgcttct 360
actgtcattt gttgttatgc ttgcctttgc catcctcata tgggttggtga gaagagacaa 420
tcctatcgat tcttctctac tgaaaagggt ttatttg 457

<210> 51618

<211> 430

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-011-Q1-K1-H10

<400> 51618

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gccccacatc caccgcgaat aacaacgaca aaaacgacat ggactttaag ttaattttca 120

aagatttcgt aaaaaagtta attttcaaag gtataatgat agtggtataa ttactttcta 180

ccttcgtgga ttgtatgctg catggtatat tttgtctcag gattgtgcgt attacgtttt 240

gacttgatgc tgtagatgct acaacagcaa cctccacgtc taaaaatata tacattgtta 300

tgcgctatcc ttgaaaactt tataatcaca ttatctttac aactaattaa gtactcattg 360

taggcgtnc aacgcccga gctcggggcg ggacagcctn cacggtggcg gggtcacgct 420

gaacagggag 430

<210> 51619

<211> 195

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-H11

<400> 51619

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agtgcgtgtg tcatcctcgg ttccagcaga cccatgcac aaacagcatg gactgcggat 120

cgatggatgc tgttaccccc gtcaggcttt attctaagtt aatcttaagg aaaaaatgg 180

gcttcttggt gctgc 195

<210> 51620

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-H12

<400> 51620

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gtcaagtacg gcgcgggcat cggccccggg gtctacgaca tccactcccc caggatcccg 120

tcggctgagg agatcgccga ccgcacgac aagatgctgg cggtgctgga caccaacatc 180

ctctgggtga accccgactg cggcctcaag acccgcaagt acacggaggt caagcccgc 240

ctgaccaaca tgggtctccgc cgctaagctc atccgcaccc agctcgccag cgccaagtga 300
gcaccttttt tttgcctttt tcgtttccga ggagggcgtc gtcgatgccca atttgtttcc 360
aataaacagg gctgtgccc 379

<210> 51621
<211> 450
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-H2

<400> 51621

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acgcatgcct gtattagatg aagctaggta tctgggtgaag cgggctactg ctacacaatc 180
aactatttca gcagataaaa ttgctccaac agtcactcct ggaagcctta agcttccgaa 240
tgggtgtagca aaaccacact cagctccttt agctgatttg cttgatttca gttctgatgg 300
tgccccagct tccaccgttg cttctactac aacacctaata gattttttgc aagatcttct 360
gggtattggg ggagttagtt catcaacgac aggtgtaact tcaaccgcaa gcacagatat 420
tcttatggat cttctgtcca tgggatcatc 450

<210> 51622
<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-H3

<400> 51622

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cggacatcgc gttgctggtg gcggagcagt tcgagaagac ggcaaggcga ggcgcccccg 180
gcggggacag cggcagcagc agcgggagcg gcggcgagac aaggaaacttc ggggcccgtgg 240
ccaaggtgtg gagctcgtgg gtggagtccg ccttcgccgc gcggtccggg gtcagattca 300
ccgtcgcggg gcagctggag cccaagaccg ggctcgcgct ggccgctgcc gacggcctct 360

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cgagtcctgc tcttgcaccc cgtactatg 449

<210> 51623
<211> 213
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-H5

<400> 51623

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tgatgtactc gtgtgtgtgc tttgggtgtt gtgtaattcc atgaccatga tcagtaatct 180
gaataaaaaa tattggagat gtgcttgctt cct 213

<210> 51624
<211> 415
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-011-Q1-K1-H7

<400> 51624

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tgatgcctct cagcctataa cattgatgac agtgactagt gatactagtg atcatgctgg 120
cgaatgctag acgtcattac catacagcag gccagcagcc agtaaggagc tccacttttg 180
cagcctgcca ctctgcttct tccactcctg aaaccgagcc tgcaggtgca ggcaatgcgg 240
ttgcttgctg gaggccttat ccaatcagtg aaggcactaa actcgcaaag ccgttggaat 300
ctgcgagcaa ggtcatgcac atcttggttg atgaagttaa tacagcctgc acttgaactn 360
ccgcactctc gcgatcgtgt ggaagacgtg ggcgccgttg agggcaaaa tcttc 415

<210> 51625
<211> 253
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-H9

<400> 51625

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gtatgagatg taaagctcag cccgtagttt agatgtaaag ttttgtactg agtataaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaaaaaaaaa aaaaaaaata aaaaaaaata aaaaattata aaaagaaaac 240
taaaataaat taa 253

<210> 51626

<211> 302

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-012-Q1-K1-A1

<400> 51626

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gattcctcat gcgtggcgcc caaaacctag agatcctttt ttgcgccoga aaccttcctg 180
agctggtccg attcggtgcc gttagagggg atctgtgtac ctccgcgtcg gccggcgctg 240
tcgatctggt tgtcttcac ggatggtttc cagacggtga ctccgncggc gcggcgcggc 300
gc 302

<210> 51627

<211> 329

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-A10

<400> 51627

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agcgcgcct ggtcaacaga tttttgccct gcgctgtcac tccaccacgc tgcttgact 120
gaaagctttt tcccagaata aaggctgggg aggaggaagc ggcggcgggc gcgctctcag 180
aagagagggg gagatgaaga ctccgagctc agcgagaggg gagccgaggc gtctcggaaa 240

tgcggctctt ctggcgetca tgctctgctc cgctcgctcgcg ctctacctca tacgggggag 300
attcgcccca attggagatg ccatcaaat 329

<210> 51628
<211> 281
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-A11

<400> 51628

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acaaacacaa gctcatgaca ttattgatcc gtgctatgac ttgacgcaga tgatagaact 120
gcatgctctg ctaacgatct agcgacggag actagctatt ctatgatgga gatagtctga 180
gaattacagc ttatcaccag actatgagct tagtccttga gcacacgatac gtgctgtgaa 240
atgcgcgtaa tatagcgctc atactctgct gcgatacgaa a 281

<210> 51629
<211> 356
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-012-Q1-K1-A12

<400> 51629

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actgactact ctcagcagca acaactgctt ccatctaacc aattggccgc actgaacccc 120
gctgctcatt tgcagcagca tatactacta ccatggaacc agctggctgc agcagaccga 180
gcttccttgt tgacacagca actgttagtg cctttctacc agcaatttgc ggctaacccc 240
agaaccctct tacaactaca acaattggtg ccctttgtcc aacttgcttt gacagaccca 300
gcggcctnct accaacaaca catcattggt ggtgccctat tttagattgc ttatta 356

<210> 51630
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-E9

<400> 51630

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ggcatgcttc ctgaagcagt gtcgaaggtc gctgctcagg cttgcaccag cattccttcc 120
aacccttgga gttctatcca caagggtttt agcgcctaag aatcataagg tgaggcgaaa 180
tatttcagcc gctccaccgc aacgaactgg ttacattac cagtcctcag gggggtccta 240
gttcttgaac cataggtgaa gcagacttat accactatta tagctgttcc accgtcgttc 300
cagattacat agctatgcc aatttcgggt gtacatatat agtcggaaag ttatttggca 360
attgtattgg tcgttgctgt atatattccc tatagttcgt tagcagatgt gtagtttgta 420
attccataaa aatg 434

<210> 51631

<211> 442

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-011-Q1-K1-F1

<400> 51631

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cgctggcggc ttacctcttc agcaacgacg ggcagctcaa gcagcagttc gagaggaccg 120
tctcggcggg agggatcatg ttcaacgaca ccggcatcca cctgacaaaac ccgaacctgc 180
cgttcggagg agtcggggag agcggcatgg gcgcctacca cggcgccctc agcttcgacg 240
ccttctccca caggaaggcc gtcttgacc gcagcttcct cggcgaggcc agggccaggt 300
acccgccgta cacgccggcg aagctcgcca tcctcagggg cgtgctcaat ggcagcccg 360
ttgccacggg tcaagcggct gcngggtgta caagaggggc atcagctgac tgactgactg 420
accccccttc atgctntata tt 442

<210> 51632

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-F10

<400> 51632

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ggtttctttt gaggatccta tcatgaatct gcactctgac caggggaagta actcccttgg 120
ctgctcagac ttgggctggg agaatgatac taagacacca gacatcacat ccattgctcc 180
cattcccact attgctgaag gcgatgagtc tgtatttgtc aactccaatt caaacagctc 240
gatggtgcct cctgtcctgg agaacaatgc tgttgatctc actgatgggc tgacagattt 300
ggaatcctat atgaggtttc ttatggatgg cggtgcaagt gattcaattg atagccttct 360
gaaccttgat ggatcacaag atctttgtag caatat 396

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<210> 51633
 <211> 305
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-F11

<400> 51633

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aaaagaaaaa aaaaaaaaaa aaaaaaaaaa ataaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
aagaaaaaag aaaaaaaaaa aaaaaaaaaa aaaaaaaatt ttttcaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa acaaaaaaaaaa aaaaaaataa aacaacggac accacataaa 180
aaacacaaaa ttcccactat tagctaaacg caatgaaact gtattcatca acaccaaaaa 240
aaacagctaa atagcgcctt ttaaaaaaaaaa gaacaatgca aaaaacctca ctgaccacca 300
aaca 305

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<210> 51634
 <211> 437
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-F12

<400> 51634

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gtccttcttc gcctaggtca ctcgttgatg gtgaagggtta caatagtgtc gatgaacagg 60
gtccctgtta cgcctcgagt tatgatgatt cggaaagaga gcgtatgttt gagcatgacc 120
taaggcgagt gaaagggttg gaaatcagaa agacggccga agatgggaac tgtctattca 180

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gagctgttgc tgatcaagtt tatggagatg cagaagctta tgacatggct aggcagatgt 240
 gtgttgatta tatggaaagg gaacgggatc atttctctca gtttataact gaaagtttta 300
 cattatactg caagaggaaa aggagagaca aggtttatgg caacaatggt gagatccaag 360
 catttgcaga gatgtacaat cgtcccatc acatatattc ctacagtaca gagcccatta 420
 acatttttca aggaagc 437

<210> 51635
 <211> 453
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-011-Q1-K1-F2

<400> 51635
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 gaacgggggc ggcattcttc agatgaccgt cttgccgggc aagtacgcgc tgggcatgta 120
 cttcgtggtg tacaagagct ggaacttcac cgagcagggc ctccccgcgc acctcgtcaa 180
 gaggggcgtg gcggtggcgg acccgttcag cccgtacaag gtgcggctgc tgatcgagga 240
 ctacccttac gcgagcgacg ggctggccat ctggcacgcc atcgagcagt ggggtgggcga 300
 gtacctggcc atctactacc acgacgacgg tgcgctgcgg ggcgacgagg agctgcaggc 360
 gtggtggaag gaggtgcgcg aggtccggca cggcgaccac atggacgcgc cctggtggcc 420
 caagatgcan gccgtgtccg aactcggcag cgc 453

<210> 51636
 <211> 192
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-F3

<400> 51636
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 gcaaaaagaa aaaaaaaaaa aaaaaaaaaa aaaaaaata attgtgcctt ttttgaccaa 120
 aaaaaaaaaa aaacaacaaa aataaaaaaa aatctagcct tttatttgac caaacaata 180

tctatcatta gc

192

<210> 51637

<211> 255

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-F4

<400> 51637

gtggaatggt gtttgcttat accgcagttt tcgactaaaa aaaaaaaaaa aaaaaaaaag 60

aaaaaagtaa aaataaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa taaaaaaaaa 120

aaaaaaaaaa aaaaaaaaaa aataaaaaat aaaaaataaa taaaaaaaaa aaaaaaaaaa 180

aaaaacaaaa aaaaaaaaaa aaacaaaata aaattaaaaa aaaaacccta caattacaaa 240

aatcaatacc aatag 255

<210> 51638

<211> 272

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-011-Q1-K1-F5

<400> 51638

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ccacactaca tgctccacg gccacaagag aactattatc ctctcccga tgtgccccct 120

gtagaaaagc agccacacta tggaatttct tcatatggac gagatgcacc tncaagtgt 180

cccccaggga atcaaaacca agcacatggg tcatctcagg tgacacacag catgcaagtt 240

cctctttcct atgctgatgc tgtgataagg gc 272

<210> 51639

<211> 272

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-011-Q1-K1-F6

<400> 51639

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tgaagaggaa ggggtgtgat gagttcccct actgtgtgca ccttgtctct tgggagaagg 120
agaatgtctc cagtgaggcg ctcgaggctg cccgcattgc ctgcaacaag tacatgacca 180
agtctgcagg aaaggatgcc ttccacctta gggtcggggt tcacccgttc catgtcctnc 240
gtatcaacaa gatgctttcc tgtgccgggg ct 272

<210> 51640
<211> 260
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-F7

<400> 51640

gaccactcg tcctctcagt ccaactacca cccatcttaa cctttttcca acatcaccat 60
ctactaggac taagtcaaat ttccacacctt caatgacact caataactat tatacttctt 120
ccattatgac caactataaa aaacaccac actatctaaa cacttaccta aatcaacatt 180
ctactacaat tacctactct acaaataaca acccatcaca tccttcatct cagtttactc 240
acaaccatct acttcctatt 260

<210> 51641
<211> 386
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-011-Q1-K1-F9

<400> 51641

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gattatgagt ttcagcttgc tgaagaggaa agggctcttg ctcagtcaaa ggaggctgaa 120
gcatcgaaag gtgctaactc tggcactgca agcttcaagg caccaggtgg tacttataga 180
agctcatttg aacagaagtc taactatcag acacctgcat cagctttgta cggggcatat 240
gagggtagtt cttcccaagg aagctcttct agttatggtg atcatacagc tncaccatca 300
gatcctgtag cattgatgga attctatgca aagaaggctg cactggaaga acggaagagg 360
ccaccaaggc agtcgaaaga tgaaat 386

<210> 51642
 <211> 447
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-G1

<400> 51642

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 gcagtcggaa ttcgaagaca tctttgatgt tgatcathtt ataaattatt tgaaggatga 120
 tgtacggatt gtccgagata tccctgactg gttcacagag aaggatgagc tgtttactag 180
 tataaagcgt actgtgaaga acatcccaaa gtatgcttca gcacagtttt atattgataa 240
 tgtacttcca aggatcaaag agaaaaggat aatgtctatc aagccatttg tggacagatt 300
 ggggtatgat aatgtacca cagagattaa ccggctgaga tgcagagtta actatcatgc 360
 attaaagttc ctacctgata ttgaagaaat ggctgttaag cttgctgcaa gaatgaagaa 420
 caaaactggc agcataaatc catacat 447

<210> 51643
 <211> 403
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-G10

<400> 51643

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 gtgatggcag tcctatttgt cgtcttacac cttactatht ctgatgtctt cgctagtatc 120
 cttggatact tgcctactgg atggtgtctt cttctgattg gacaagcatg ctcaccattg 180
 attaggagga ccctgctgtg ggactccatc atggagctcg gaaggtcata cgagaatata 240
 atgggtctcg tcctcttctt gccaatgggt ttctgtctgt ggttccccct cgtctctgaa 300
 ttccagacac ggctgctgtt taaccaggca tttagccggg gcctccagat ctcaaggatc 360
 cttgctggtc aaaaggatgt tagcgagttc gagttcaagt gac 403

<210> 51644
 <211> 349

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-011-Q1-K1-G11
 <400> 51644
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 aagggccggg gacggctttc tagcgatttg ggtcaacatg aatccccagt actactacct 120
 tttaaactt ctgcttattg gcgattctgg tgttgggaaa tcatgcttgc ttctcagatt 180
 tgtccaccat tcttatttgg acagatatat catcacactt ggggttgatt tcaaaattcg 240
 cacatttgaa caagatggga agaccataaa acttctcatt tgggatactg ctgggcaaga 300
 gctctttaag acaattactt gcatttacta tcgcggagct catggaatc 349

<210> 51645
 <211> 371
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-011-Q1-K1-G12
 <400> 51645
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 tttctcgaat agaacagggg actgatgttc tacgtgggaa gacccttttg ttgttgctc 120
 tgctttgcaa gaatagtcga aggtggcttc ctcatctctt ttgcaatgca aaattaatct 180
 cagctgttga tagactggga aaagagaagg agggttttat tcatcaatgt acagaagcat 240
 ttgtgcagtt ggttgcttcc ttgggtccctg gtattcttga cactgtctcc agtgatatac 300
 aacaggttat ggttggcaaa cgccatggac ctgttactgc tttagctggg cgagctcatc 360
 caaagagcac a 371

<210> 51646
 <211> 456
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-011-Q1-K1-G3
 <400> 51646
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agacatgcac aactgtttca tggactttcc gtaacttcta tgagaaggca ctccttgaat 120
acgagaaaca caaaatcgaa acaggagagt tccaagtagc ttcattctgct ctaccagacc 180
ggtttggttc tgagagtcag gtgggtggaa gccatgtatc tggttctgga agagccagaa 240
gagaatctgc aactcgtgca atgcaagggtt ggcatctca gcgcctacta gggaatggtg 300
aaatcgctga ccctataatt aaggataaag ggcatattgt cttaaagaag gataaaactc 360
ctaaaagcag tggttctgcc aagaggaaaa ggacactatc cctggaagat gacagggtga 420
taccttataa atctgatcag ctacaaaatg actcga 456

<210> 51647

<211> 290

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-E8

<400> 51647

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agtgatatgg aagcaaccag tgcaagggtga aaagtccttc gtatccgagg catatccggc 120
gaaatggaac aaaccaccat caccaagcaa gcaatcgcaa gactccttcg agccagaggc 180
atatcgggtg aaatggaaca aatcaccacc accacaccaa caatcgcaag actccttcga 240
gtcggaggca tatcgagtga aatggaacaa atcaccacca ccacaccaac 290

<210> 51648

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-D12

<400> 51648

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aagccagttg ccgccaactt ctgaagtttt accgtttgca agctccaact actctccttc 180
cgaagctcca agtaaacctg acttgcttat tggcacccca gattcggcat ccaagaacta 240
tgtggagcag cagtacgagt actgtgtgaa ggtggtcaga tggttggagc atgaagggca 300

catggacaat gacttccgtg tgaagttcct cacttggttc agtctgaagg caacagcgca 360
ggacaagcga atcgttggcg ccttagtaga tgttcttatac ggtgatcctg caagcttggt 420
tgcccaactt gttgatgcac tcaa 444

<210> 51649
<211> 337
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3079-011-Q1-K1-D3
<400> 51649

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aggtgaagat gattccgcag agccagagca gctccctgca gcgccttcaa cacgtcgaga 120
agcggatagt gcgggtgctg gagcttgccg gagcggatgat ggaggagctg ggaaactccc 180
atggccctcg caccgatgca gtcagcgcgc actgccgtga gttcatgata gctatgaagg 240
aaattcanac gacgttgctg gaggaatca aaagtgcctg tgaatatcgt ccatttgaaa 300
gtgtgattac agtgccagga ttggctatga gatatgc 337

<210> 51650
<211> 463
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-011-Q1-K1-D4
<400> 51650

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ctgctaattg caagtgaaga atggtgccac agagccagag cagctccctg caacgccttc 120
aacacgtcaa gaagcggata gtgctggtgc tggagcttgc tggagcggtg atggatgagc 180
tgcgaaactc ccatggccct cgcaccgatg cagtcagcgc gcactgccgt gagttcatga 240
tcgctatgaa ggaaattcaa acgacgttgc ctgaggaaat caaaagtgc cgtgaatatc 300
gtccatttga aaagtgtgat tacagtgcaa ggattgctaa tgacatatgc tgcaagacgc 360
tagagtatgt aattgagaag ttggatacca tgcaacatat ccttgaacat atcactgatg 420

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463

<210> 51651

<211> 430

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-011-Q1-K1-D5

<400> 51651

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ggcctttctcg ctactcgtgc tccaggtgac ttatttcaaa tgtggaggcg tctcccttgg 180

tgttggcatg caacaccatg cagcggatgg catgtctggc ttgcacttca ttaactcatg 240

gtctgacctc tgccgtggag ctcaaatttc tgtcatgccc ttcattgacc gcacccttct 300

tctgtctcgt gatccaccaa ctccatcttt tcaacatatc gagtaccagt ctgccccagc 360

tatgttgtcc tncacaaccc aggtccttgc ttccaagtca aagccacctg ccaactgcttg 420

ggacattttc 430

<210> 51652

<211> 350

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-D6

<400> 51652

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aggcccaatt agtccattcg tgaaggcatt gaaataattg tttcacgagg aatgactatg 120

ccacaggtga tcacgtcact ggaaccaaca cctcggaaga gccacgtgcg tttagacaga 180

gtgaggactg tatgaggcat gaatgaaagc gatgggtgtt tcacgatgga ttgtctaatt 240

aatggattca aagctggggc atggagcatg aagcaggatc agtttgtaga ttgcattcag 300

aactcctgtg cacgttggtg gacgtagata catgacaacc ctgattgact 350

<210> 51653

<211> 395

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-011-Q1-K1-D7

 <400> 51653

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 gcagagaggt acgaggaaat ggttgagtgc atggagaagg tagcgaaaac tgttgactcg 180
 gaggagctca ctgtggagga gcgcaacctc ctgtctgttg catacaagaa cgtcattgga 240
 gcccgacgtg cctcatggcg catcatctac tccatcgagc aaaaagaaga aggtcgaggg 300
 aatgaagacc gtgtaacact catcaaggac taccgtggca agattgaaac tgagctcacc 360
 aagatctggg atggcatact taagcttctc gaatc 395

<210> 51654
 <211> 313
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-011-Q1-K1-D8

 <400> 51654

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 gcggcgccgg agaccggtca gaaggaatgt cttcggccca aatcgcgccg gcagatcatg 180
 tgtgctatgt gactgcagc ttctgcaaca cagttctcgc ggtgagtgtc ccggggaata 240
 gcatgctcaa catcgtgaca gttcgggtgtg gacactgcgc aaatctactg tcagtgaacc 300
 tggaagcact gat 313

<210> 51655
 <211> 442
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-011-Q1-K1-D9

 <400> 51655

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 cccatttctg cttggaaaga agcaaagcta cagttctatg gtgggcctga tgggtgctgtc 180
 atgcagagaa cgccattaat ccatgcaaca ttgatctcag ggccaagaaa gaagctcaac 240
 tcggcatgct tcctgtttga agcaaggga acaaacttac cccaccagat ctctgtcgcc 300
 aaagcagggc tagtgaataa gctgtgtttc ctcccggatt gtcactgctt ttatatattgt 360
 gcatttattt tgagggaac attttgccca aaaaaggcct gcagtgcacg ttttaaacia 420
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<210> 51656

<211> 365

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-E1

<400> 51656

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 ctgcgggca cgtgcgcg 60gcctgtcg cgggcggcgc gccggctgcg cccgcgggac 180
 ggcgtctcgg cgtgcttctt gtcccgcgcc atcgtgccgt tcctcggcgg cggcagcaag 240
 ggcgtcaaga agtcagtctc ctcatcagca tcctctact cgtcgtccaa gttggagagg 300
 acgaaagcgg cgccggagga tgaggacgag gcggtggaca ggctgatgct gatggagatc 360
 atgat 365

<210> 51657

<211> 435

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-011-Q1-K1-E10

<400> 51657

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 cgcgccgcgc gcgccgaccg caggttctac cgcctcttct tcgccgagcg ccaccgggac 120

ctcgtcctgg gagactacct caccacgctc cgccgcgagg ggcgcgccgt catggtcaag 180
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gacaagaaga aggaggtgat ggacgacctg gacgcgttcc gcaacggcaa ggactactac 360
gcgcgcgctc gcaaggcgtg gaagcgcggc tacctnctgt acgggccgnc ggggacccgg 420
cagtccacca tgatc 435

<210> 51658

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-E11

<400> 51658

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tccacctgcc ggaggtgctg gaccgtctct cgcgcgcaga cggcgaccgg cggtcggccg 180
gcaaccacgc ggcgacggg cacggacacg gacgcgtcca cggtctcggc ggcgcccgcg 240
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gcctcttcaa gtcagacatc caggtgacgc tggacgagga ccgggtgctg gtgatgaacg 360
gcggcagcgg gaagcggaag cgcgatgagg aagatgacat gaacggcgat aggtgccgat 420
acatccggtt ggagcgc 437

<210> 51659

<211> 188

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-E12

<400> 51659

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ccactattga atgaacgacc ataaattgcc tacttgccaa ctccattca aacaactcta 120
tggtgcactc ctcttctgca gaacattctt ccatactca ctattggct gacaaaaatc 180

ttatgcta

188

<210> 51660

<211> 314

<212> DNA

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<223> Clone ID: LIB3079-011-Q1-K1-E3

<400> 51660

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ggctgggctc actgtaacat atggacttaa tttaaagtct cgcattgtcaa gatggatatt 120
gagcttctgt aaattagaga acaggataat ctatgctgag cgcatttatc aatattgcag 180
gcttcctagt gaagcaccat tgattattga gaactgacgt ccaccatcat catggcctca 240
gaatggaaac attgaactga ttgatctcaa ggtccgctac aaggacgatc taccattagc 300
tcttcattggc gtaa 314

<210> 51661

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-E4

<400> 51661

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tcgtcctacg gagcggcgga gtacatctgc atccagccgt gctgggagct gccgcactgc 180
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gccagagtgc cagtggagaa tggagcgtcg gtctctctct cgtctcgatc gtgtaagata 360
aatatatggc agatgataat gcacaatata aataaacggg agaagaaaaa aaatccaagg 420
atctcgcattg cgttggttcc ataca 445

<210> 51662

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-E6

<400> 51662

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tgggagactg atctgggacg cgtccattgc cgatagagac ttgcagtagc atccactagg 180
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gtcgtcgtac aaattgttcg tgagtgggtga gccagtttat aggcttggtt ttcttttggt 300
ttcagctatt aacttgaact tcttggacaa gttaagggtt taagggggtg gatgatagat 360
cccgaagggt gcaattgaat tacc 384

<210> 51663

<211> 305

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-011-Q1-K1-E7

<400> 51663

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tggaagtgag cttcgagggtg tcgccggcgg ccctggccgg tgccgagacg ctggacccgg 120
cgctggccta cgacgcggag aagctgtgcg gcgtgaagcg cgcgacgtg aggggcggcg 180
tggggccgtt cgggctgtgg gtgctggcct tcgccaaccg caaggagaga accgccgtgt 240
tcttcagggt gttcaagccc gccgncggca gcgacaagcc cgtggtgctc atgtgcaccg 300
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<210> 51664

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-D10

<400> 51664

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gtaaggtgcc atatggcgac aagcaggctt gcgctcgtgt ccgtgtttgc cgcagccgtc 120
ctgctgggca tggcgctcggc ggcgacctac aacgtcggcg agccggccgg gtctctgggac 180
ctgcgtacca actacggcac ctgggtctcc tccaagaggt tccacccggg tgaccagacc 240
gtgttcaagt actcgcccca ggcgcacgac gtggtggagg tgaacaaggc ggactacgac 300
tcctgtctaa tcgccagccc cgtcgccacc cacaactccg gcaacgacgc catcgccctg 360
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<210> 51665

<211> 95

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-B4

<400> 51665

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ggtttgaac atgatgaaca tgcgaatttc gtggt 95

<210> 51666

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-B5

<400> 51666

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aggtcactgc ggcctggga gaacacttct cagttcagcc cgtggatcta caagcagttc 180
tttccggtga tgaaggatcc gtgccttcta caaagctgct gtcacaacag gacctagaaa 240
gaaattgttt cgtccaaaga atcccttaac aatatagaaa gttgaagcgt gaccatgctt 300
gtcgtttttg ttgtgaaata tgagcagttt tgtcgagctg tgaattcatt caaacattat 360
gggcaacca gtacgtacat acgaatgccc accaccatct ttaagtac 408

<210> 51667

<211> 362

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-011-Q1-K1-B6

 <400> 51667

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 ccaacttcgg ctctactcc gacgacatgc gctacaccga ccaggacgta cgacgcatcg 180
 tccgatacgc cgaggccttt ggcattcgcg tcatccctga aatcgacatg ccccgagagt 240
 gagagctgat tccacagtac tgtactggat cctgcactat gctacagctg caatcttcaa 300
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<210> 51668
 <211> 337
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-011-Q1-K1-B7

 <400> 51668

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 atggctttgg tgctctcgcc atcctcactc tcttatacta tgctatattt cgatggataa 180
 agaggaaacc aacaggaaga ttccagctct caaattgatt agctctgtaa gtcgaagatt 240
 gacagattca tcatatgtgc cccctgagag gcagctcagt tagcatgta gaaatgtata 300
 tgatcaacat aaccggacca atgcaaacca aatcatc 337

<210> 51669
 <211> 437
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-011-Q1-K1-B8

 <400> 51669

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ctagaaaatg gagaaccgca gcaagactaa ttacgttcga aacatcaagt gatgctcatg 180
ttgggtcttt tgctccagtt gttagtcac aacaaaacta gacacctttt gctggtcctc 240
tttttggggg tgtaattgga tcgtgtacca agactagcat catttgcagc aataatacta 300
gagtagtaag attttgaatt taaataactt atgtcgggtcc cttctttcag tattatctat 360
gtcaaactcat cgttcaagtc tcttttccctg aggaccagac cttgtttttg gttccatgcc 420
gtgggggtctt tctttgg 437

<210> 51670

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-C10

<400> 51670

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atgaggcaaa ttgtcttacg ctgtacttga tgaactctgg agtattatca ctgcgcaggt 360
tgaaaacggg aactatacaa tgtaatttca gcacagatta 400

<210> 51671

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-C11

<400> 51671

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atggaagaag gctatgggac actgggtata cagtcaatgc aaagggtccc ctccctccgtg 180

cagactcaga agcaagcatg ccttatgatt cgcaatcttg ttgccccgaaa ccctgagaat 240
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 agaagctgta aagatgctgc ttcgtctgcc ttgagggacc tgggcctcga caactacaat 360
 gcatagacac cagtgaccag tcacaccata gaaaatgtgc gtcgagttag tttggtagcg 420
 gtagaatggt ttgga 435

<210> 51672
 <211> 425
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-011-Q1-K1-C12

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 gggctctgact tcattattgt cccaaattcc catctgttca tcacctggag gacttgttga 180
 cacggttgag gaggggtgtc accggattcc acatgggttc tttcaatgtc gagtgtgaaa 240
 ctgtagacct agctgacgtg acggcagtag cgtcaaccat cacacgggcc tagaacagta 300
 cggcaccctg gcgttccaag aaatggttca gaactgcatg gcgcaaaacc taccctggaa 360
 ggtgcctgcg aagaagtggg aagaagtgtc tctgggcctt tgagtcnagg ggagtcaaag 420
 ctgca 425

<210> 51673
 <211> 449
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-C2

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 gtgatcctcc atctctaccc ctctctcaag ggtctcatgg gcaggcagaa ccgcacgcca 180

acaatcgtea tcgtttgggc catcctcctt gcgtctatct tctccttgct gtgggtgaag 240
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tgctgatcca gattgtgact cttatctgaa gaggtcagc caaagatctg cccctcgtg 360
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aagttatgcc tctggttatt agcttcttc 449

<210> 51674
<211> 130
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-C3

<400> 51674

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gttagaacgc 130

<210> 51675
<211> 406
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 51675

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acggcggcgt gaagggcttc gtgtccaacc tcgtccacgg cggcggcggc catggccatg 180
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accctacccc gcacggcggc cacgggtacc ctntccccgc cacctacccc gcgcactcgg 360
cgcactacgg gcacacgggg tcgtaccaca ccagccacaa cagcta 406

<210> 51676
<211> 429

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-011-Q1-K1-C5

 <400> 51676

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 cagatgtacc ctcaaagca tgtgcagcat ttccaaatt tcatgccata tgcacaactc 180
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 aatggaaata attatcttca gatgccagc ggaggttcac atttaactgc aagaagcgtg 300
 aagtatggag ttccacagtt taaaccactc ccatctggta acccttctgg ctatggaaat 360
 tacactcacc cagctggttt tacaatgggt tctcctgggt ttattggagc cacaagtggg 420
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<210> 51677
 <211> 322
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-011-Q1-K1-C6

 <400> 51677

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 aactctattc tccactttac cccatgcta tgccaaacta ttcgccaat gtccattatg 240
 catcacacgg aaataattat cttcacatgc ccagtgcagc ttcacattta actgcagcat 300
 acgctaacc ttaagtttca ca 322

<210> 51678
 <211> 442
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-011-Q1-K1-C7

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 ggagcaggag gcatatcggg tgaaatggaa caaatcacca ccaccacaac aacaaacgca 240
 agactctttc gagcaggagg catatcgggt gaaatggaac aaatcaccac caccacacca 300
 gcaatcgcaa gactccttcg agccggaggc atatcgggtg aaatggaaca aatcaccacc 360
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 acatgcgcaa ggagcaacgg ac 442

<210> 51679
 <211> 366
 <212> DNA
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 <400> 51679

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 tttgtttttg tttctgctgc atcgggagca gttgggcaaa ttgttgggtca acttgcgaa 300
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<210> 51680
 <211> 359
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-011-Q1-K1-C9
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aagtcgtctc tgtaccacgc ttctcgtttc gtttgcaccc gtgatggtat ggtttggttg 180
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 aagagcaaac aacttaaaga taatacttaa aaacttatta aaatccccct aacgatttac 300
 aaaaaactgt aaaaaaata cttccttttt cttccaacta aaaaaaaaaa aaagggggg 359

<210> 51681

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-D1

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 attttagacg cgtggagggg tgctgccgcc tttgcggcat caagcaagtt cggcaaacia 300
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<210> 51682

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-B3

<400> 51682

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383

<210> 51683

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-A10

<400> 51683

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ggcaacctgt gcgtgaacgg tccccccgcc ggcttgacgc tcaccagcc gccctacggc 240

gagaccttct ttggccgcgc cacctgccgc tgctccgacg gccgcctcgt cgtcgacttc 300

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<210> 51684

<211> 435

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-011-Q1-K1-A12

<400> 51684

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cgcagctggg ggggcgcttc ctggccgact ccgagccggc cgtgtccgtg cagctcggcg 240

accacggcca cctcgcctac tcccacacca accaggcgct cctccgcccc aggtcggttcg 300

cggccaagga cgaggtgttc tgcctgttcg aggggggtgct ggacaacctg ngctcgtctga 360

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acaagacgct gcgcg 435

<210> 51685
 <211> 405
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-011-Q1-K1-A2

<400> 51685

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<210> 51686
 <211> 458
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-A4

<400> 51686

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<210> 51687
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 <400> 51687

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 gatcgtcaac aacgccgcac tgatggcgac gaaaaaccgg acggaggcct tcctgatgct 180
 gcacgacagg atcagagaaa tacctcagac gcacggaccg acagaagaag aggatgatcc 240
 tgtacggact acactaccag aacgactggc tggatacggc cagagcgaac aagctgatca 300
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<210> 51688
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 <223> Clone ID: LIB3079-011-Q1-K1-A7

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 cagtttgtgt cactgcttaa tgcttgatgc taggaatgta gaaataggta tctgatgaaa 360
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 <223> unsure at all n locations

<223> Clone ID: LIB3079-011-Q1-K1-A8

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<211> 429

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 51690

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agcgcttcgc tgtcctggcg gacctccgca gccacctccg nactgcggc gaggaggcac 360
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<210> 51691

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-B1

<400> 51691

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ggaggtgccg gcggagctgg tggcggcggg cagccggacg ccgtcgcca agacgaaggc 180

gtcgcagctg gtggggcgct tcctggccgc ctccgagccg gccgtgtccg tgcagctcgg 240

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cgcggccaag gacgaggtgt tctgcctgtt cgagggggtg ctggacaacc tgggtcgtct 360

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<223> unsure at all n locations

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caaggcggag aagcgtgtcc cagcaggcaa gtccgccggc aaggaggcg gcgagggaaa 180

gaggggcccg aagaaggga agaagagcgt ggagacctac aagatctaca tcttcaaggt 240

gctgaagcag gtgcaccg acatcggcat ctctctaag gccatgtcca tcatgaacta 300

cttcatcaac gacatcttcg agaagctcg cgccaggcc gtcaagctcg cgcggtacaa 360

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<210> 51693

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-B11

<400> 51693

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<210> 51694

<211> 410

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 51694

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 caagaaaact tctgctgttg taataggcgg cgcaactgtc atctgggttc tgttcgaagt 360
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<210> 51695

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-B2

<400> 51695

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 gtgggcgtgg cgtgggggag gcgccgaggc ggtcggggcc gtagataaga gtcgtctcac 180
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<210> 51696
 <211> 321
 <212> DNA
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<223> Clone ID: LIB3079-010-Q1-K1-H5

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 ggaaagtgtg tcttagcctg ttgggtacct gggatggtag aggttgtgag aagtggaatc 180
 cagctcaatc gacaatgctg caagttcttg tctccattca agctctgatt ttgaatgaca 240
 agccatatta caacgagcca ggatatgagt cctatgccaa cactccgaat ggagagcggg 300
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<210> 51697
 <211> 306
 <212> DNA
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<223> Clone ID: LIB3079-010-Q1-K1-E8

<400> 51697

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 gacgggacac gggaagagag gaggagcttg cttggacagc cgggagactg gtgctggtat 180
 atagatagct actagaggta ggcgggaggg cgggcggcca atgctgtcag gcgcgtatgg 240
 ctaggagcat gggcggaagg ggcgcgaacg ttcacggctt ccgtcgttg ttccaccgac 300
 ggagcg 306

<210> 51698
 <211> 343
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-F5

<400> 51698

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ctctggtacg gctccgccgc ggaaggggaa gtcgtgcaag ggctgccttt actactcgtc 180
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agttcctaac tacgtggtgg atgagcctaa agaggacgcg acagcgcatg ggcgatgatct 300
caggcggttc aagtacaggg tgctcggtta ctccatattc gtg 343

<210> 51699

<211> 154

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-F7

<400> 51699

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gccccttggt gctgaagac tcgtccattt gact 154

<210> 51700

<211> 285

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-F8

<400> 51700

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gggaaagatg ctacagctga ttttgaagat attggccaca gtgattccgc acgggacatg 180
atggataagt accacatcgg gcagatagat gcttcaacaa tcccagcaaa gcgaacttat 240
gtgcaccctc aacaagcgcc caaccactta gacaagaata atgat 285

<210> 51701
<211> 478
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-F9

<400> 51701

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tgtctgecta tctccccagt caatttcttc cattcatacc atactgacag tcattgaacc 180
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ttgcccttct tttaagattt cttaatgagt taatagttca ataattaaag gttttttg 478

<210> 51702
<211> 209
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-G10

<400> 51702

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gtagaatggt agtcgttgct gtcatttata gaaatgcttg tgcaatatgt tttcctaaag 180
actcacaaat taactgcatg ttttggtcc 209

<210> 51703
<211> 266
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-G11

<400> 51703

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 gaataagttc gctactcct tcatttataat gccctgctt acatccagca taatcttagc 240
 ctacgtatgc cacatgcact ttacc 266

<210> 51704
 <211> 106
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-010-Q1-K1-G12
 <400> 51704

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 <211> 369
 <212> DNA
 <213> Zea mays
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 <400> 51705

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 <211> 432
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 <213> Zea mays
 <223> unsure at all n locations

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aacgcagagc tcgcagcata caaatccgtc atggctctca agattgccga ggctgctaag 360
atatctgact cgtcccgaga tattgtttgt actatcctcg actaaagaaa aatatgggtt 420
gttcattgat tt 432

<210> 51707

<211> 270

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-E7

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gacgggacac gggaagagag gaggagcttg cttggacagc cgggtggactg gtgctgggat 180
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<210> 51708

<211> 197

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-G7

<400> 51708

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cacaagcaca tgctgtggca cagcgtcage aagatgcgat cccaaaccgc tagtcgtgtg 180
cgatccagag ttcattgg 197

<210> 51709
<211> 314
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-G8

<400> 51709

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<210> 51710
<211> 330
<212> DNA
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<223> Clone ID: LIB3079-010-Q1-K1-D10

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<210> 51711
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-D11

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<210> 51712

<211> 203

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-D4

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cccactccca tggccaccac caggtgctc cccttcccgg cgtcgaccag gcacaagtcc 180
ggtgatggag ccctcacggg gaa 203

<210> 51713

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-D5

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tgaatccaaa acataaccat gatcacaaca tcagggtgctt tcccctacac gttgagtttt 180
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aaa 363

<210> 51714
<211> 250
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-D6

<400> 51714

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tcggctcgct gtcgtcctga tcgatctact gtccgggtac accaacgacg tgggtgtgccg 180
cgcggctctt agcgcgtcac accggaacca acgcctgaac actctgttca gctagctgac 240
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<210> 51715
<211> 411
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 51715

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<210> 51716
<211> 363

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
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<400> 51716

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 <223> Clone ID: LIB3079-010-Q1-K1-D9

<400> 51717

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<400> 51719

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aaaaaaaaaa ccctttaatc acaaaatttt acatttctct aaaataaaaa actacttaca 240

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<211> 425

<212> DNA

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<400> 51720

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gctggtgagg cccggcgggc tcatcggtta cgacaacacg ctgtggaacg gctccgtcgt 120

gctccccgac gacgcgcca tgcgcaagta catccgcttc taccgogact tcgtcctcgc 180

cctcaacagc gcgctcgccg ccgacgaccg cgtcgagatc tgccagctcc ccgtcggcga 240

cggcgtcacg ctctgccgcc gcgtaagtg aaaaaaagaa gaagaagaaa aaaaacataa 300
taccctgcgt tcttgettgc ccggtgtctt ggccccact actgccaccg acggcggcgc 360
cgaacccccg ttccaatcat catatcgtag acgacgcgca gcattaaact atcaatcacc 420
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<210> 51721

<211> 415

<212> DNA

<213> Zea mays

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<400> 51721

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ctgatgttac gaagaacggc ttgagatctc caaaggcaga atgttgccag cctgtgattg 180
agagcgtaa actaaagctg gcagagattt tgaatactat atcaactcaa gatgactgca 240
aatgttgca acaccaactt gataccaga ggaaaagagc tagatataac aagatgattc 300
gccggcatat tgacttccga atgcttcact ctaagatcaa gagtggcgca atctcttgca 360
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<210> 51722

<211> 275

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-A7

<400> 51722

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aaagaaggag gctgcatttg cccttgacgc tcttatggaa ataccttctc agtataaagc 180
aacgcaaggc cttcgacctc cagaaaagca agcacaaagg attggctctc ctaggattct 240
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<210> 51723

<211> 357
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-010-Q1-K1-B1

 <400> 51723

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 tcgcttcatt ttcattcagc gcaaccgcct ctttcgaggt tcaaagccca tcaaggatag 180
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 <400> 51724

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 gcctcggccg ccccgggctc cgctcggcc gcccggcgt ccgccaaggt cgccgatcgc 180
 atcgtgcgcg tactcgccat cgatctcgag ggggcgcgcc gcgaggtcgt cggcctctcc 240
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 <211> 412
 <212> DNA
 <213> Zea mays

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 gcctcaagct ctactgactc cttatgcttc ttattattcc actgtcttac tctgctgcgc 240
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 cagagggtcc agatcccgac cagcaagggtg cggatgctga tgctgggtacg gtgggagctc 360
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<210> 51726

<211> 349

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-B6

<400> 51726

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 aagctgcagc gcgctgtgat agagttcaca tctaacaaga cggcttcact tgcccttcta 180
 tgctcaagc tctactgcct ctttctgctt cttattattc cactgtctta ctctgctacg 240
 cctctgaaca gaagcctgtc gctgactagg aaccttctgc agcccgcgga tgaccctgct 300
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<210> 51727

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-B7

<400> 51727

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 gccctctcct ttgtagcagc tatgtttgcc ataggctctc atgctgatgg agactgtgag 120
 aatgacctcc aaagcctgat aagtgactgc aagacatacg tgatgttccc agctaacca 180
 aaggccctc ctteggatgc ttgctgtggt gtcatacaaga aggcaaacgt ttcttgcttg 240
 tgctccaagg tcaccaaaaga aactgagaag gttgtgtgca tggagaagggt tgtgtatgtt 300

gctgagcagt gtaagaggcc atttgagcat ggcttccagt gcggaagcta caaggttcca 360
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<211> 434
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 51728

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tgatccttag tacagaaatt gtcaaagctg atctttccac caagactctg actagtgcag 180
ctggagcaaa ctttacatat gagatcttgc tcattgctac tggctcctcg gtcataaagc 240
tcaccgattn tggcacacaa ggagctgatt ctaacaacat tctatatcta agggaaattg 300
atgatgctga caaagctggt gcagctatcc aggcaaagaa aggtggcaag gcaatggttg 360
ttggaggagg ttatatcggc cttgaactga gtgcagccct gaagatcaat gactttgatg 420
tcactatggt gttt 434

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<211> 268
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-C2

<400> 51729

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ctaagagaat cctggacaac taagaccgta gcctatgtat aacatattct aacaaaagct 180
gcctggccta agcagctgag attgtgctgc ctggccaggg caaccaagct gcctggccta 240
gttgtaacat attctaacaa cgtttact 268

<210> 51730

<211> 93
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-010-Q1-K1-C3

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 agaaaaagtg aaaatattaa aataaaatat aaa 93

<210> 51731
 <211> 287
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 <223> Clone ID: LIB3079-010-Q1-K1-A6

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 ctggtgtcct tgctgggtac gacaagctcc aggtggttga cttcggcaag aagtacgggt 180
 ctggtggtgg ctaaggatgt ataatgatga tgacaacgaa caacaaacat gatgttttag 240
 gtgcctcctt taagtaaaca tacttacgga ccttttacac catttta 287

<210> 51732
 <211> 356
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-009-Q1-K1-F3

 <400> 51732

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 ctagaacccg catgctaaag gaatatTTTT actcaaaacc aacctaacat gtgaaccttt 120
 tgaaccaaac acggattgat gcatgttcaa cccgttcaa cccgctaacc aaacacaccc 180
 tctgtgacgc gagcaggttg gggacttggg attggggttc ggggagagct gaaagggaaa 240
 tgtgcccttg ggccatttct aagtattttg gtgattgagt gccaacacaa gtgattaaat 300
 gtgaatctat gcccatggat ggacaaagtg caaatcaaga gtaaagggtat gtttct 356

<210> 51733
<211> 341
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-009-Q1-K1-F5

<400> 51733

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gcacgggcg cgcctaata aatcccctgc gctccgcgcc cgcgggtcg caaccctaac 120
cttctctccc tgctccgccc cgcgcacggt cgcctctact gccatggtga gcgctgaagt 180
cggcatcgat tacgtgctgt ggacggagga cgaggtgtcc acccgcgagg gcgaggtcgc 240
cgccgagctc gcggggcgacc tgcgcgcgtt gccggagccc gccgtcatcg tcggcgtcgc 300
cacgggcgcg ttctctctcc tcgctgacct cgtccggcgc g 341

<210> 51734
<211> 334
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-009-Q1-K1-F8

<400> 51734

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gcccgcgccc accacctacc gccagggaag caagcccatg gaacgcgatg atcccatcgg 120
ttgctccgtg tcaccaagcc catgttcctc gtaccaacca agtccgcggg cgtcatacaa 180
tgcaagccct acctcgctct cattccccag cggcgcaccc tcccccttcc tccctcccaa 240
cgaaatgccc aacggtatcg acggcaatcc aatcctacca tgggtcaaga cattctccaa 300
cggcactcca tcaaagaaac acccgctcct ccca 334

<210> 51735
<211> 345
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-009-Q1-K1-G1

<400> 51735

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tacaaccctt acttcaatct ggacatcatg gacgcgctcg gtaggctgcc tagggaggtg 180
gcaacccccg catcatcgcc taaagcgtgc catggacctg tccatgaagc accagcacct 240
cccggaggac ctccaggcac agcaggttcc attcagagga tatttgagtg acatgttggc 300
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<210> 51736
<211> 173
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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acggcggcnc gattccgaag cgcacacact cgctccagcc aaaagcatcg cagcttctaa 120
tcgatcggag agcacacacg aatgtcgtac gtgcagctct atgctgctgg agt 173

<210> 51737
<211> 343
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-009-Q1-K1-G6

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gtcacctcc gatacgcgt gacaaccctg ttatccatga tccacagttt ggtaaaagac 180
tgccatcctt ttctcctcta ggaggagct cctatggcaa aatgccagca gtacgagttg 240
aagtaggctc gccatcttgc ggcgttagca gcagcccaaa agtaaggatt gaaggtttcg 300
cctgtggcaa ctccgagacc cactatgcag ttacctttgt ctg 343

<210> 51738
<211> 330

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-009-Q1-K1-G7

 <400> 51738

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 ccgggaacat ggtcaagagc gccatcaaga acaggaactg acgtcggcac cagacagttg 180
 ctcatgtgct tcctcttgat gatcatatac ccagaatgat cggacagtaa ttcaatgcgc 240
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<210> 51739
 <211> 249
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-009-Q1-K1-G8

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 tgcagggcga ctttctcgag cgcgaggcca gcctcgtgct gaggctcggc ttgctgtgct 180
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 atgcgccgc 249

<210> 51740
 <211> 230
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-009-Q1-K1-H1

 <400> 51740

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 cgatggtgct gtgggtcttc ggctacggct ccctcatctg gaaccccggc ttcgacttcg 180

acgacaaaaat cctcggcttc atcaagggct acaagcgcac ctttaatctc 230

<210> 51741
<211> 266
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-009-Q1-K1-H2

<400> 51741

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ctggaagtag gggcctgaac ccgctggagg taaaaagggt ccaaaattaa aaccttcaat 180
ggcatgtaaa ataaggttcc ggaaaaagga aggggggtggg gcgtcttttg ccataagggt 240
tcgaataaaa ggaccgcggt cctttt 266

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<211> 234
<212> DNA
<213> Zea mays

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<223> Clone ID: LIB3079-009-Q1-K1-H4

<400> 51742

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tttaccatc ttcacattct tatctacatc tttntttaa acacattgtt tggttttatt 180
tggttgatca ttaaaacaaa cttgaagac acccataaaa acacattcca acac 234

<210> 51743
<211> 388
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-009-Q1-K1-H6

<400> 51743

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 atcaggcaca caagctgtac ttgccatgt cccctttgag tacacatcag tatcatgcag 240
 gaggtaatgt ctagtagtgg tcggtttagg tgggtgtagtc atgggaactc gacatcagat 300
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 atttgttgta agctcatatt ttcagggg 388

<210> 51744
 <211> 52
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-009-Q1-K1-H8

<400> 51744

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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-A11

<400> 51745

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 aatgtcccta cttccgatgc ttgctgtcgt gtcattaaaa aggcaaactg ctcttgctta 240
 tactccaacg tcaccaaaga tactgataaa gctgtgtgca tagagaaagt tgtgtatggt 300
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<210> 51746
 <211> 198
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-009-Q1-K1-F1

<400> 51746

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aggggtcgac gtcagcgagt ggctggcttt aacccccgtt tgtttcggca aaaaaaccaa 180
aacctttgcc gccttttt 198

<210> 51747

<211> 215

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-A2

<400> 51747

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tcttttttgt atttatgttt tatgctaaat tgtggaataa cactatatta gttgttagca 180
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<210> 51748

<211> 421

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-010-Q1-K1-A3

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ctgcgccacc tgcaactgcg tgccgtccgg gaccgcgggc aacaaggacg agtgcccatg 300
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<210> 51749
<211> 364
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-A4

<400> 51749

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caggctgtcg tgcgcggccg tggaaacgca gagctgcgac agcctcctga cctcggagca 240
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gaccgacaac aacaccgccg actcgggtggg cgccttccag agcgacacgc cggtcagcag 360
cgtg 364

<210> 51750
<211> 324
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-A5

<400> 51750

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gtggggctgg ccctggccac gcccgagttc ctgtctttca gcccgtgct cgtccacgcc 180
gcgctgctca tcggcacggc cgtcgcggag ttcctcacgt cgggcgcgct ggggctcggc 240
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<210> 51751
<211> 270
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-009-Q1-K1-B8

<400> 51751

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tgaccgaaaa tgatattctt ctgcaatggg atggcagtta atttcttga aaaaaattcc 120

ctcccatttg tgcggtgatt ggtgattgga attaaagccg gagtgaggga gatgcctgct 180

tttgactcta tggcgggtat taattgtttg ttgggattat gcattagcct caagagttgc 240

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<210> 51752

<211> 328

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-009-Q1-K1-C1

<400> 51752

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gtggtgaaag ctgttgctgt gcttggtagc aacgatggtg tcaagggcac catcttcttc 120

accaagagg gagatggccc taccactgtc accggaagtg tctctggcct caagcctggc 180

ctgcatgggt tccatgtgca tgcacttggg gacaccacca atggctgcat gtctactgga 240

ccacactaca atcctgcgag caaagaacat ggagcaccag aagatgagaa ccgcatgcc 300

ggtgatcctg gaaatgtgac aactggag 328

<210> 51753

<211> 330

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-009-Q1-K1-C3

<400> 51753

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tggttgtgtt ccgtcctctg gagaagactc agatgctggc cattcttgat atcatcctaa 180

aggaagtcaa gggccgactt ttggccctcg ggataggttt ggaggtgtct gatgcaatga 240

aggacctgat atgccaagag ggctacgaca aaagctatgg cgctcggcct ctgaggagag 300

ctgtcaccca cattatcgag gatgtcatca

330

<210> 51754

<211> 56

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-009-Q1-K1-C7

<400> 51754

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56

<210> 51755

<211> 193

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-009-Q1-K1-D1

<400> 51755

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gacacactag tttctctctg atcctcatct cctccctctc tcgagtcaag agcagatcat 120

ctaccaaaca agctcttctt tcgcttgcaa tccatggagc tcgacgccga caaactgatc 180

gccaccgatc ttc 193

<210> 51756

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-009-Q1-K1-D3

<400> 51756

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ctctctcgat ctacgccatg gcggatgtgg agcagcaaca ggacacgccg aagctcttca 120

accgctggac cttcgatgat gtccaggtga acgacatctc gctgaacgac tacctcgctg 180

tgaacgcgac gaagcacgcg atgtacctgc cgcacaccgc gggacgttac tccaagaagc 240

ggttccgcaa ggcgcagtcg ccgatcgctg agcgcctcac aaactcgctc atgatgcacg 300

ggcgcaaaa cggcaagaag gtcatggctg tccgcatcat caagcatacc ctggagatca 360

tccacctgct caccgatgcc aaccccatc aggtcgtcgt cgacgcgac a 411

<210> 51757
<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-009-Q1-K1-D5

<400> 51757

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aactctgtct tccactgccc agaccacatc tgagattgac tcgctgtacg agggcattga 180
cttctactcc accatcaccg gtgccagggt tgaggagctc aacatggacc tgttcaggaa 240
gtgcatggag cctgttgaga aatgcctgag ggatgccaag atggacaaga gcagcgtcca 300
tgatgttgct cttgttggtg gctccactag gatccccagg gtgcagcagc tgctccagga 360
cttcttcaac ggcaaggagc tgtgc 385

<210> 51758
<211> 312
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-009-Q1-K1-D6

<400> 51758

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atccattatc ggcgacgtac gtgctcgcgc cgcattccag tcttccaccg acgcctcgcg 120
cctccggtcg acagatccac ttaccgaccc ctgcgcgccg acgttggcgg ggatgtcggg 180
gtccccggct gcggccgcgg tgaagctcac cgggcactct gcaacgagcg tgctggcgtg 240
ctgtgagctc tcccagggcc aaaatgggaa ggatgggtga tgaggagatc agaccgaatg 300
attcaatatc ct 312

<210> 51759
<211> 306
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-009-Q1-K1-D7

<400> 51759

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ggctctcctt gctgctgacc ttaagaagaa agctgaaaca cttgacaggt tctgcaatgc 180
cgatcatgac gaaaccgaag ccagttccta agccacagac tccgcctgcg gcaaataccc 240
aagctcctga gcctcatata ccggagcatc agcgatcaaa tggcggaagc acaaccagcg 300
agggag 306

<210> 51760

<211> 312

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-009-Q1-K1-D8

<400> 51760

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ggtcggtcag ccgcgcgcaa ccgcctcatc cccatcagtc tcaccgtcgt cggcgaggca 120
aactcgatgc ccccccgctc gccgcagcca cagccgctcc gagcttgagc cgtcgttgct 180
ccgctgaatc gcccccatcg tctctcctga agagagagga catttattga gacagcatgc 240
ctaagataaa gacaagtcgt gcctagtatc ctgaaggacg ggagcttatt gaaccaacca 300
tccttgagtt gg 312

<210> 51761

<211> 234

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-009-Q1-K1-E1

<400> 51761

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gtgtctctat ctgagccatg gccaccag aacaccaaca ggacactccg aatctcttca 120
accgatggac cttctatcat ctctcacga acgacatctc ccttaacgac tacctagctg 180

tgaacgctac gaagcacgcg atgtacctgc cgcacacacc tgtaccttac tcca 234

<210> 51762
<211> 238
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-009-Q1-K1-E3

<400> 51762

cccacgcgtc cgcagaaaca caccaagcga atcacattat caacaaccta acaacaatgg 60
ctaccaagat attatccctc cttgcgcttc ttgcgctttt tgcgagcgca acaaatgcgt 120
tcattattcc acaatgctca cttgctccaa gttccattat tacacagtgc ctcccaccag 180
ttacttcaat gggcttcgaa caccagctg tgcaagccta taggctacaa caagcaat 238

<210> 51763
<211> 275
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-009-Q1-K1-E4

<400> 51763

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gaatggcgac cggctccagtt aaccctaaaac cctttctgaa caacctgaca tgaaagcctg 120
ttattgtcaa actcaagtgg ggtatggagt acaagggtta tcttgcttct gtggactcat 180
atatgaatct ccagcttgcc aacactgagg agtacattga tgggtcaattc tctggaaacc 240
tgggagagat tctgatcagg tgcaacaacg tcatg 275

<210> 51764
<211> 374
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-009-Q1-K1-E5

<400> 51764

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taactgtaga cccagcttca catcctcagc tccatgtttt cttaaaacag gttgttgggt 180
 tggatttggg ggatgatgaa agcaaacctg aaagacgccc aacaaaacac atgccaacac 240
 ctgagcaatg gactaatatt ttcaatccag cctatgcgta ttatgtgtac tattgctatg 300
 ccaatctgta tacactgaac aagcttcgtg agtccaaggg catgacaacc atcaaacttc 360
 gtccacactg tggg 374

<210> 51765
 <211> 334
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-009-Q1-K1-E6

<400> 51765
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 gcttggcgcc gccgcgccc tcgtcttctc atgcatgggc gccgcgtacg ggaccgcgaa 120
 gagcggcgtc ggcgtggcgt cgatgggtgt gatgcggccg gagctcgtca tgaagtccat 180
 cgtgcccgtg gtcatggctg gtgtgctcgg tatctacggg ctcatcatcg ccgtcatcat 240
 cagcacgggg atcaacccca agtgcctgcc ctactacctc tttgatggct acgcccacct 300
 ttcgtccggg gctgcctgtg gtctcgtctg gctt 334

<210> 51766
 <211> 360
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-009-Q1-K1-E7

<400> 51766
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 gcaccggggc cgccctaata aatcccctgc gctccgcgcc cgcgggtcgc caaccctaac 120
 cttcctcccc tgctccgccc cgcgcacggt cgcctctact gccatggtga gcgctgaagt 180
 cggcatcgat tacgtgctgt ggacggagga cgaggtgtcc acccgcgtgg gcgaggtcgc 240
 cgccgagctc gcggccgacc tgccgcgctt gccggagccc gccgtcatcg tcggcgtcgc 300
 cacgggcgcg ttctcttccc tcgctgacct cgtccggcgc gtcgacgtgc ggctcgtggt 360

<210> 51767
<211> 139
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-009-Q1-K1-E8

<400> 51767

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aagcactacc gatttaaaaa aaaaaagggt gtctttctct agagtgccca gcctttcttc 120
ctctttaatt caacctaat 139

<210> 51768
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-009-Q1-K1-B7

<400> 51768

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atcagaggaa agaaaatcgt ttgggtaatc ggatatttga ccttttcgat gtcaagaaaa 120
ggggtgccat tgatttttgt gactttgtcc gagctctaaa tgtgtttcat ccaaatatcc 180
caatggatga aaaaattgat ttctcgttca agctatatga tatggatagc acagggttta 240
ttgaacggaa ggaggttaag cagatgttaa ttgctcttct aggagaatca gaaatgaggc 300
tatctgatga tatcattgag acaatcctgg ataagacatt ctctgatgct gatgcaaadc 360
aagatgggaa aatagataga acagagtggg agaattttgt cac 403

<210> 51769
<211> 321
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-G8

<400> 51769

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aaaatctggt gtcgtgttgg atttggtgcc accactaaca aagggttaaca acctgatatt 120

tggg'gcact tgggttgatt ctctggaga gatggtcatg acgaacctga caactggaga 180
 caaagttgtg ctatatttcc agccatgcgg ctgggttggg gctggccgtt acgaggtgga 240
 tgggtatgtg tacagtgcag cggaagaacc caaatcatg attacaggga agtgaacaa 300
 gtcctgagt tgccaacat g 321

<210> 51770
 <211> 439
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-008-Q1-K1-G9

<400> 51770

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 agcagccgca tcgatggcgc ccaaggcggg gaagaagccg gctgcgaaga agccagcggg 120
 ggaggagccc gctgccgcca agggcccgcc ggggaagaag cccaaggccg agaagcgcct 180
 cccggcgccc aagtcgtccg gcaaagaagg cggcgacaag aagggtgaaga agaaggcgaa 240
 gaagtcggtg gagacctaca agatctacat cttcaagggtg ctgaagcagg tccaccccga 300
 catcggcatac tttccaagg ccattgtccat catgaactcc ttcattcaacg acatcttcga 360
 gaagctcgcc ggcgaggctn gccaaagtgc gcgctacaac aagaagccca ccattacctc 420
 tcgggagatt caaacctct 439

<210> 51771
 <211> 295
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-H1

<400> 51771

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 aacaacaaac gggccgcccc ctcaaagact cccaacttta cttccccgca cttccaacct 180
 caaacctctc ctatcacccc ccaaaaatca aactgcctgc cccccacttt caaacctata 240

tacctggaaa accccagcca taacccaact aaatcccctc tcaaaccatc cccct 295

<210> 51772

<211> 439

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-008-Q1-K1-H11

<400> 51772

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aatcttcttg ttttctttca tctttccaga actcacaaca ggggtccaaa tttgttaaga 120

caggtttaga tagttcaagt aacattggga gctcatcaat tgcacctccg aagaaagttc 180

accctggatc aaatggaatg cttccgcaag aagaagcggga tatgccatca catctctcta 240

tatccactaa gatgctacca ccaccctga agagcatgct gccactgcca ccagaagca 300

tgccccacc accacctaag agcatgcctn caccgncacc aaaatttcct tcagatgagt 360

ttttgtcaag aaacgagaac aagttttttc ctttaaagga gccaacagca ctttcaaggt 420

cctttgatgc aatatcagt 439

<210> 51773

<211> 433

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-008-Q1-K1-H2

<400> 51773

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atgttggaat tattgaatca actggatgga ttcagcagcg atgagagaat aaaggtcata 120

gctgcaacta accgtgctga catccttgac cctgctctga tgcgatctgg acggttggac 180

cgaaagattg agttccctca cccatccgaa gaagcaagag ctagaatctt gcaaattccat 240

tcaaggaaaa tgaatgtaaa tcctgatgtc aactttgaag aattggctcg ctcaactgat 300

gacttcaacg gagcacagct aaagggccaa gtttttggtg taggaaagct tggtnnatgc 360

ttggcccttt tacggcggga atgccttaca gagggtaana ctacgaagg gatttcaatg 420

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433

<210> 51774

<211> 368

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-008-Q1-K1-H3

<400> 51774

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ggccgctagg ctttgcgctt ttgcctgcat cactcgctca ttccggagccc ctctcttcgc 120

cggcgtcgta agaagagatg gcagagcggt tgacctgtat cgccatagtt agcgaggaca 180

agtgaagcc caagaagtgc cgccaggagt gcaagaagag ctgccccgtc gtcaagactg 240

ggaagctttg cattgaagtg acttcggcgt cgaaactcgc ttctatttct gaggaactgt 300

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atcatcaa 368

<210> 51775

<211> 323

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-H4

<400> 51775

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agccgtggtg cacgtcaact tctaccgcaa ctatggtaag acgttcaaga aaccaaggcg 120

tccttatgag aaggagcgtc ttgatgctga actgaagctg gttgggtgagt atgggctgag 180

gtgcaagcgt gagctttgga ggggtccagta tgcactgagc aggatccgta atgctgcaag 240

gcacttgctc acccttgacg agaagaacct ccgtcgatc tttagagggtg aggcacttct 300

tcgccgcatg aaccgctatg ggc 323

<210> 51776

<211> 415

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-008-Q1-K1-H5

<400> 51776

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cgttccatcc aggaagttat cgctaattggc attagcgtca acgtcacgct tatttttctca 120
attgcaagat atgaggctgt gattgatgct tacctcgatg ggctagaggc ttctggcttg 180
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gcagtagcac aggccaaact aagccaaaaa attcggcttc ttaccannga agaaatnntc 360
tctggcccaa aggggtgggaa ggccgttggc ccaaagaaaa ggggtgccaaa gaaac 415

<210> 51777
<211> 316
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-H6

<400> 51777

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acccgcgcgc gcggcggccg gcggcgagcc ctcacccatc cgagcaagcc gtggaggaag 120
cgagcgcgcg aaagtatcag gaggaggcat gggtagcctg gggcgcgcga tcttcacggt 180
gggcaagtgg atccggggca cggggcaggc catggaccgc ctcggatcca ccatccaggg 240
cggcctccgc gtcgaggaac aggtttcaag gcacgtaca atcatgaata tttttgagaa 300
agagccaagg atccat 316

<210> 51778
<211> 320
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-H7

<400> 51778

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attgttcacg ttaccaatt tgttctttat tgatgggtca agataagatt tttgtatgga 120
 tgttgctgag gtataaatta gatgctccaa aggctgcatg gagcagatga agacgatgta 180
 ttccacttcc catttgcacg ttgtacttcc atagagagat caatgaactg ttatgaagag 240
 tcaactgcaac tgtggccttt gatctttgtg aagtcacata cagtaattgt tgttagatgt 300
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<210> 51779
 <211> 250
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-H8

<400> 51779

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 aaaagagcgc tcgaatatat aactttactc caaatgactg atggacgttc tatactcact 180
 gtactcaaat aactatgggg atcctcaact tacatggatt gattaacatc cacctttcac 240
 cagttactgc 250

<210> 51780
 <211> 433
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-H9

<400> 51780

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 acccggaaca gacctggagc caagttgctc ccggcgggag cagtgggtaca gtgaataatc 180
 cgaaaggaaa tgctgctgct cagggcagtg ctggttcac agagaaccat tcggcccaag 240
 taaactctc aaaatctgga aataacagca agggtagcag gtcacata acacaggatg 300
 gtggttctgg tggaaataag aaaggtgatt ggtacaagga aatggctagt tgcgatatgt 360
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acattgatga gcc

433

<210> 51781

<211> 311

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-009-Q1-K1-A6

<400> 51781

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ggaaagggtta gcaactgaaac aatctggagc agaactgggc acttcaatcc ttttctttgg 120
atgcaggaac cgtaatatgg actacatata tgaagatgag ctgcaaactt tccttgagga 180
gggggcgctt tctgagctaa ttgttgcatc ctctcgggaa gggccaacta aagaatatgt 240
gcagcataag atggtggaga aggccacaga aatttggaac atcatctcac atggtgggtta 300
cttatatgta t 311

<210> 51782

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-009-Q1-K1-A8

<400> 51782

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caaggaccac gccggcccgc tccgccccag cgttgacgcc gtcgagtctg ccgtcaaggg 180
cgtcgttagc cccgtctacg accgcttctg cggcctgccg ctgcagctcc tcgccttcgt 240
cgaccgcaag gtggacgaca cgggtgcacga ggtggacaag cacctcccgg gcgcgctgaa 300
tgccgcgtct gcgcagtctc acgcggtggc tcggtgcgtg cctgatgtgg cgcgcgagct 360
tg 362

<210> 51783

<211> 233

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-009-Q1-K1-B1

<400> 51783

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tttttccaag tactccgtcg cggacagctc catggacctg ggcagctgcc cgttctccga 120
ggtcgaggtg ggcggnggaa gtctgcgaga aggtgacgag tcggagaagg agagggccac 180
tgttctgcgc aacaaggcgc cgatgtggca cgagcagctg cagtgtggt gcc 233

<210> 51784
<211> 59
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-009-Q1-K1-B3

<400> 51784

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<210> 51785
<211> 322
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-G7

<400> 51785

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ttgatcatcg ttagcctgcc tttcgtgat tttcagaagg ttggcggatc ctgctcctga 120
gcattgcccg ccgggagagt ttgtccggga gatccactc cctacccgaa tccctgaaga 180
cgccactctg gaagcgtact gcgatgaaac agggacaggg ctggagatta ttgtcccgaa 240
gttccgcggt ggccctgaag aacacgaagt gcatgtgtcc atgaggccac cctcgtcctg 300
gtgccaatga aacctgtttc ca 322

<210> 51786
<211> 326
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-F1

<400> 51786

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ggtcggctcc gcgctccctt aaccggctgc cacttgtctc atggcggaag tgaacaacc 120
ctccgccccg gccgctgcga agtgagaagg gaaaacacga aacgatcgag ggaggggacg 180
acggagcgag ctagctagcg gcgcggcggg cgtcgtcgg catggacgag gaggtgcag 240
cggccgcggc ggcgacagcg gtggacgaga gggagcggct gctgacgaac ttcgcgtccg 300
ggaggacgca gccggctgcg tggcgg 326

<210> 51787

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-F10

<400> 51787

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gccacgacgg gacgtgcgat ctcaaactga aaaatacaag ggttgtatcc atagattcgt 120
tcgagcgtgt gccatcaac tacgagagag cgctgcagaa ggccgtggcg caccagcctg 180
ttagtgccag cattgaagca tctcggcgcg cgttcagct ctacagttct ggcatcttcg 240
acgggagatg cgggacgtac ctggaccacg gtgtgacggt ggtggggtag ggcagcgagg 300
gcggcaagga ctactggatc gtgaagaact cgtggggcac ccagtggggc gagggccgggt 360
acgtccggat ggcgcgcaac gtcagggtga gggccggcaa gtgcggcatc gccatggag 419

<210> 51788

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-F11

<400> 51788

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acttcagttc gagctttgtc acatatcact caattgttaa gaacctcact ccaactctcc 120
aagccattgt agaacataga ggcgtattgc cacttgcgat gattcgtcgt tcacacacaa 180

aatattatca tgtgctacac caattctgga agctactaga ggaaaatgtg aggaatataa 240
 agaaactctt gttgagcaga ttagtcttag tgggtctcgt gtgcttgctg cagtgttaacc 300
 aaactccaag tagatgtgct ctgggctctg gcatgtggta tgtgatgaag tcgaggatgg 360
 tttcttgccg tttgatgacc agtgtagtcg ttgggttaact tgtcagtcgt aaactgatgt 420
 tgtcagtta 429

<210> 51789
 <211> 342
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-F3

<400> 51789

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 cattctgtcc tcgctgtgtc catgctacga agccggcgcc tgtatcggga agccgccccaa 180
 gacgccggcg ccgaaaaggc cctgcttctc gccctactcc gaggaccact gtgaccgcca 240
 gaactgccgc ttgctctgca tgtcgcacgg ttacagtgcg ggtggctggg gtgacgagag 300
 ggaggtgcgc aaaatgtgct gcttgctaac cccatttttag tt 342

<210> 51790
 <211> 398
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-008-Q1-K1-F4

<400> 51790

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 ggtgcccgtg gacttctggg tgagcccgtt cgggcagcgc tgccgcacgc cgctggcgga 120
 gaagggcatc gcctacgagt actcggagca ggagctgctg ggcggcgcca agagcgacat 180
 cctcctccgc tccaaccggg tgcacaagaa gatccccgtg ctccctccacg acggccgccc 240
 cgtctgcgag tccctcgtca tctcagagta cctcagaggag gccttcggga ggccctccca 300

ggctgctccc gacgccgcta cngcgccgcg cgcaggcccg cttctgggcg gcctactccg 360
acaaggtcta cgaggccggc acgcggctgt ggaagctc 398

<210> 51791
<211> 189
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-F5

<400> 51791

gattcttgcc cctatcaagt actgatgagc tgtgctttgt catcagtttt ggggagacat 60
gtagtctttg ttttaagtgt tcggtaacag tttgtgacag tataatctgg taaaccgtgt 120
tatttttctg ccaactctat ttgaacacat tttctagctg gtgaatgaac tgtttggtcg 180
atcttggtc 189

<210> 51792
<211> 300
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-F6

<400> 51792

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gcggctcttg caccgcgcgg gtcggacatg ttctccacac tgagaaagac ttcacggaca 120
tacacttctg acctgccggc ttactctta ggactgccgg cagagtcgca acgtgcctct 180
cgccgcgaca agtcacatcg cactagaggc tgccgagagc ctgtggaaga catcgacgcg 240
cgcaacgtgc tggagcggct gcagacggcg cacctgtacc ggctgccgag gctcagggcg 300

<210> 51793
<211> 319
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-F8

<400> 51793

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gtctgtcgaa ctctgctgcg tacctacaac agcgacaaca gttacttaat ccattggtag 120
 tggctaacc attggtcgcc gccttcctac agcagcaaca attgctgcca tacaaccagt 180
 tctctttgat gaatcctgtc ttgtcgaggc agcaacccat cgttggaggt gccatctttt 240
 agattacata tgagatgtac tcgataatgg tgccctcata ccgacgtgtg tttcctagaa 300
 ataatacaata tattgattg 319

<210> 51794
 <211> 445
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-008-Q1-K1-F9

<400> 51794

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 tgtggtggcc gggccggtgt ccagggtgga ggacgccacc atgttcggga tatactacgg 180
 tcagagcttc aaggtcatca agaactccgg cgatggcaag agctaccttc tcatgcagaa 240
 cacgtccaag atggcatcca agacgaagta ctgcacggng aggattaagt cgttcgtcat 300
 cccctcgcc agcttctccg tcgacaccac gacctctcca gtgtcattct ttgagctgct 360
 tggagtgcta gagagcttga aaggaataac atcgaaccaa gtcgcttctc agtgcggtgct 420
 ccagtcatat acaagtggaa atgcc 445

<210> 51795
 <211> 320
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-G1

<400> 51795

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 taacatcatt cagacctgac tgtaagctgt gcaaagtctt ctgtcttaac gaagtgactg 180
 aatgcttcgg tcaccgcatg tctgtgtgat gactgtagct gaagtacacc tatgaggaca 240

agctgcgcaa gggccgaggc agaaggtagc ctcaagggca tcctgggtta cgttgaagag 300
gaccttgttt ccaccgattt 320

<210> 51796
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-G11

<400> 51796

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gctcctaggt cttactgcaa gtgctgtac cgcaaccatt ttattacaat gcttacaagc 120
tcctatagct gcctatctta ctgcatacct ctgaccagcg gtgtctacag tatgtgaaaa 180
cctaattctt caaccctaca ggatccaaca ggcaatcgca gcacgcattt tacctgtatc 240
acccttgta ctccaacaac tgtcagccct attacagcag gtacctatgg tgcatttgat 300
gacacatgac atcaaggtac aacaactaca acaacttgtg ctaggaaacc ttgctgccta 360
ctgtcagcaa cagcagcatt gttgcattca accgactggc tgcatagaac tc 412

<210> 51797
<211> 419
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-008-Q1-K1-G2

<400> 51797

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agtcaagttg cggggcgtgc cgaagggcgg gagtgcgctc gtgaaggtgg cgctgctcgg 120
cggcgcgggg ctctacgccg tcctcaacag cttctacaac gtcgagggcg gacaccgcgc 180
catcgtcttc aaccgcctcg aggggatcaa ggacaaggtg taccgccgaag gaactcacct 240
gatgatcccc tggatcgaag gccgatcat ctacgacgtc cgcgcccgc ccaacctcgt 300
cgagagcacg tccggaagcc gcgacnctt cncaagaatg gggatgaagaa ttgggnntct 360
tcgtggtccc ttaactcgac ncnncatgcc aagaaccaag cttaccttaa aaatctaca 419

<210> 51798
 <211> 330
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-008-Q1-K1-G3

 <400> 51798

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 tgaggaatgc agattgtgcg agaagtggag aagatttttg gtcctaatga caaaagactg 120
 gtccagcaac ttgttggcgg agctaatactg tccaggcagg aagaagcatt gaagaagaac 180
 aaaccaatca ttgttgtcgg aacacctggc cgtattttctg aaatttctgc agcaggtaag 240
 ctacacactc atgggtgccg ttttcttgta ctagatgaag tcgaccagct tctgtctttt 300
 aattaccgtg aagatatgca tnagaatttt 330

<210> 51799
 <211> 431
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-008-Q1-K1-G4

 <400> 51799

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 tccatggccg tcttcgtcgc gccgctcagc atcatcgtca aggtgggtcaa gaccaagagc 120
 gtccagttcc tgcccatcag cctctccttc tgcttcacgc tcagcgcogt cgcctgggtc 180
 tgctacggcc tcttcaccaa ggaccccttt gtcatgtacc ccaacgtcgg cggttctctc 240
 ttcagctgcg tccagatggg cctctacttc tggtaccgca agccccgccc ggcgggccaag 300
 aacaacgccg tgctgccgac gactcacgtg taccggggcg tcaacgcccc gtgcaggggtg 360
 caaggggcag ggggtcatcga gccctggggc cccaacacgg ggtgggcat cctgtcgggtg 420
 aagcccccca t 431

<210> 51800
 <211> 421
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-008-Q1-K1-G5

<400> 51800

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ggcgccgtgg cccgtcggat cctcgagaag ctgcgcgccg acgccgagtc caggctgtgc 120
ttcgcgcagg accggtacat cttccacgtc ctccgatccg acgccgccgg catcaccttc 180
ctctgtatgg ccaacgacac cttcggaaga aggatccccct ttctctacct ggaggacatc 240
caaatgaggt tcatgaaaaa ctacggcaga gtcgcccact ctgcgctggc ttacgccatg 300
aacgatgagt tctccagagt gcttcnchnat tcaagnecaa atgggagtnn tcttctccag 360
gccaaaccaa agcgcnncga cacacttcca acccgtcttc nncgtgggag aaagtcaagc 420
g 421

<210> 51801
<211> 417
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-008-Q1-K1-G6

<400> 51801

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ggcaaggctg acacctccaa gaaggacgag ggagggtccc gggcgggcgg cgccgccgga 120
aagcgcaaga aggccgccgc gagcggcaag cccaagcgcc cgccctccgc cttcttcgtc 180
ttcatgtctg aattcaggca ggagtatcag gcgctgcacc ctggcaacaa gagcgttgcg 240
accgtgagca aggcagcagg ggaaaagtgg cgtgctatgt cagatcaaga gaagcaacca 300
tatgtggacc aagctggaca gaanaggaaa gccagggact ttatgagaaa gactaagggg 360
caaacttttg ataaagaaag ggagagccac aagnnctcaa agaaagggct aagactg 417

<210> 51802
<211> 366
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-E9

<400> 51802

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ttgatccaag aaaggatcta gtgcttccgg catggaagga acctaacca ggggccatat 120
ggttaaaact gtgggcaagg ccaaggaaca accgtacaac acttttttat ttcaacggta 180
atcaagggtc agcatacgaa ggaggccgtc cagaagacac gtatagcatg gggattcggc 240
aaaagctagc agctgaattt ggttccacac caaacaagca gggaaggctt gaacggcagc 300
atgcggccga tgtgacagtt acctatctac gaactgaaaa atattatgaa gaattagcac 360
gctctg 366

<210> 51803

<211> 345

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-008-Q1-K1-D3

<400> 51803

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cagtggatgg agtgaaaaag agccgccaga aacagaggaa gcaggctggg gcttcgtaga 120
tggggaagtc tccagccagg gccgggagcg ggggtggcgag tcagtctgca gtcgctcggtc 180
ggacaggtca gtcggggcgca cggcgcggtc caagtcgctc cgagagaaaa gcctgtgccg 240
cggaacggac actcggggaa ggcttggtgc cgtgggagct ggtggtgggg acggccgaag 300
ctgctgctac atccacctgc ggagccgcat gctgntcatg ggcag 345

<210> 51804

<211> 108

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-D4

<400> 51804

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agaaaagttt aaaactaaaa atatgaacct cataaaaaaa taaaact 108

<210> 51805
<211> 317
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-D5

<400> 51805

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gttcccgacc cagatgtccc gccgctacgg ccggagcttc tctactgcc tcgtcgaccg 120
cacctcctcc ggcgcgggcg ccgcgccggg ctcccaccgg tctccaccg tcagcttcgg 180
ggcgggctcc gtcggcggt cgtcggcgtc cttaccccc atggtccgca acccgcgcat 240
ggagacgttc tactacgtgc agctggtggg catcagcgtg ggcagcgcg gcgtcccgag 300
cgtggccgag tcggacc 317

<210> 51806
<211> 369
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-008-Q1-K1-D6

<400> 51806

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cgccctgag ggcggcgcg gccgtgaagg agacgacggg gatcgtgggc cttgaggtgg 120
tgctaacgc gcgagaggtt ctggtagggc tctacgagcg cacgctcaa gagatcaagg 180
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agatctgcca ggaggaggag gactggaagc gcatcgagga ccgaatcgga tgcgggcagg 300
tcgaggagct catcgaggaa ggctcggagg ggaacggagc ctcaaagctt tcatcgctta 360
nnaaatgat 369

<210> 51807
<211> 386
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-D7

<400> 51807

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cttgctgata atcgaccagt tccccagcct tgctccttgc actcctccct ccattctgcag 180

cattgcgttc tgattcacct gtcaccaatgc tgtctttctg ctgctgagct tcacgggtcta 240

gctatcgttt tgagggctat gagacgccct gagatccatc ttgagcacct gcttgggccc 300

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cacgtgtgca caattgtgtc tgagct 386

<210> 51808

<211> 318

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-D8

<400> 51808

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ctcttgctgg aatctagatc tcgtcccctg gggggaaaag atcttaaggt gctccgggtc 120

gacaggtcac cgggggcgtc cccagacgac gtggagtcgc ctaagaatta agagatcaaa 180

tcgaggaaga agtcttgat gaacaactag atcttgcccc cggggagggg tgagatccta 240

gggtcgtctt gggatcgaca tgccaccaa gacggatcta gacgacgtaa agtcgaatag 300

gggtggatgt ggatatgt 318

<210> 51809

<211> 298

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-D9

<400> 51809

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aaaaaaagga ctcttaaggg cactttaaaa tttaaaaagg gacaggccca gctaccgttc 120

acaatctata accttactcg actctcaagc tcctaacgtc actattatta acaaattgaa 180

gcatactatt gcctgtgaga aaattcaacg tgtcatacct ggaataaata tctcacatcc 240
acataaatgt tattcatata acatccaaca tgaaaacact atattatccc ataataata 298

<210> 51810
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-E1

<400> 51810

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aaggtgctgg tcccgatcgc gaatgggacg gagccgatgg aggcgggcat caccatcgac 180
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gatctatctc tctaccggga ggggatgcct ggttcttcga cttttggaga gtgcaaaagt 360
tttggagaaa atggtcaaaa aacatgtaga gaagggcaaa gcttta 406

<210> 51811
<211> 218
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-E10

<400> 51811

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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaatggcaga aacatattaa 180
aaattaacta aacattatta tccttagaaa aatcaaca 218

<210> 51812
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-E11

<400> 51812

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cgcgcgccgc ctggcagca cgcggggctc gtacgctctg acgctccgcg gacggagctc 180

gcgcccgtgc cggcagtcgc gcacctggac ggcgcctgct ggccggccgc ggccggcgctg 240

gacgtgctcc tgcccagctc cggcggcgag cagctgttcc cgtacgggta cggcgacttc 300

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<210> 51813

<211> 231

<212> DNA

<213> Zea mays

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<400> 51813

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caaccattat tatacacatg gaactgttaa atttaaaca tgaattccca aaccataaat 120

tcaacatcaa ctaatacatt aaatatactt cttatttaaa tccttacaaa gcataatata 180

tccaattcca atatattact taattctaca aattatactt tatatatcaa c 231

<210> 51814

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-E2

<400> 51814

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acgctctttg ctttacaaca gttatccggc ataaattctg tgttctatct ctcataact 180

gtattcagaa gtgtgggggt gccctctaac cttgcaacat atgcatggga tctaacttat 240

agacatgaca tgcttttagga caagctagta aaagtgtttt ttagagttct ggatggcttt 300

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atctttcagt tggtagccat ttctgttgt 389

<210> 51815
<211> 379
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-E3

<400> 51815

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tccgacccgc cccgtcctcg gcccacgcg ctgccgggcc gatgcgcgaa cccgacctct 120
ctccgcgccc gtccctgcca ccggctgccc atattggaag gagctcgagg ctgggcgctg 180
acctgagtta tggaagggat gccgactgca acagtactcg ccaagcatgc ctaagtcgaa 240
gaagctgaga ctgcagctgg aagcgtgga accggctacc tgtcgcaggg gccaggaaag 300
cgtgctccta cacgtgctgc taggggcaga aagggtgcca ctgggaaagg agtgccccct 360
gcacctaccg actagaaga 379

<210> 51816
<211> 387
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-E4

<400> 51816

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tccatgcagt ccacgtcaa gtcgctcgac tctcgtctcg ccaccgggaa cctccagaag 120
atgtccgaga ccattggaaa ttctgagcgc cagttcgtca acatggaggt ccaggccgag 180
ttcatggagg gcgccatggc cggctccacc tccctctcca cgccggagac cgagggtcaac 240
agcctcatgc agcaggtcgc ggacgactac gggctcgagg tctcgtcgtc gcgcagcgcg 300
ccacgccatc ctgccgcaa gggataagga gaaagtcgac gaggatgacc tttctcgccg 360
cctcgccgag cttaaggccc gcggctg 387

<210> 51817
<211> 359
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-008-Q1-K1-E5

<400> 51817

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gattatcacc cttgttcctc caacaaccgt cagccctatt acagcagtac cttgggtccat 120
tggggccaac atcagcacac actcacactg gctgcaacct gtgatactct acacatagtc 180
ttcatcccac tggctgatga actctgtgta ttgcacacat acattcaccg ctgtgctgct 240
accagcatt cttcattcaa ccactagcag ncattggaac tctgctgctt atttacagca 300
gcaacaacta ctaccattca gccagctagc tgatgtgagc cctgctgcct ttcttgaca 359

<210> 51818
<211> 355
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-E6

<400> 51818

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gctcctaatt tcacttctat gaactgtact aatttgcac gaagaaagtt tgggtcccaa 120
caactcgtga actcgttttc ttattattgg gctgatggac aaggcaacgt gaaatttttc 180
atggtacctg ggaacagaac ttagcctaca aactgcagaa ccattctcat ttcatcttgt 240
agtcttgtct tgctaataat ggactttgtg ggctgtctgt tccctgtgta attcatttgg 300
ccatgacagt tcttgatcaa tggttggatt tattcatagg aatggtgttc aaaaa 355

<210> 51819
<211> 329
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-E7

<400> 51819

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 cgtcaccacc gaaccaagtc ccgcgtccct ggtcccgcgc gcggggccca cgccaggcgg 120
 tccctccgtc tctcatcgac agactgcgcg ccggttcgcg attatcagct tccgccctac 180
 tcggaaggag accggaccct ctcagacgcg ttccgggctt gcagcctgtc cgctaccgcg 240
 cgcgatgcag cccgtccggg ggagcctgag attgagtgcg caggggaagg ggtgttggtt 300
 cgtggaggcc gaagccagct gctccctcg 329

<210> 51820
 <211> 373
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-008-Q1-K1-E8

<400> 51820

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 tgggtccgttg cgggctcggc gtgtgggctg atcagtggag ctgggagggg gaagaggcgc 120
 tgggtgagagc ggaggagatc acagcgtgg tgatggaggc tatggaagat gacgcgatgg 180
 cagtgaagc ggcgaatgtc cgcgaggctg cgtcgagagc cgttgtggac ggccggcacga 240
 gctaccgaag cctggcggcg ttcgtgcgtc gttgcaccgc atgaagttat ataaaaatta 300
 cttatataac ttaacttcaa ccggggctct tatataaact ttttaaaaaa tatgccctnn 360
 attccagaac ata 373

<210> 51821
 <211> 430
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-D11

<400> 51821

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 cagcccgcg cggccaagac gacggaccgc ccggccgcgc cgtcgaggc gtgctgcgac 120
 gcgctggcgg gggcggacct caagtgcctg tgcggctaca agaactcgcc gtggatgggc 180
 gtctacaaca tcgaccccaa gcgcgccatg gagcttccgg ccaagtgcgg cctcgccacg 240

ccgccccgact gctagcagtg tgctagccaa gccaaagccaa gcaggaaggc ccccggcatt 300
gctagctgta cgtgtctgtg tgtgcatctg cagcaggggtg caggcagggg cccgtacgta 360
cgtgtctctt tctctctctc atcttgtcac cgtacctatc tagagtgtgt gtgttcgtac 420
taattaaaat 430

<210> 51822
<211> 327
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-008-Q1-K1-B3

<400> 51822

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gtcctttcca gtcgctctg taatctgcat cagcctcgcc cgccgcgcgc gccgccatgg 120
ggaggggaaa gttcaagggg aagcccacag gccgccgcaa cttctccaca cccgaggaga 180
tcgctgctgg tacttcaggt cggccacgca cctttaagaa gaaggaggaa gaggaagatg 240
aggaagaggt agaaagagaa gagtctgagg aagaatctga agaggattct gatgaaaaga 300
ctaaacataa aggcactgag ggtatta 327

<210> 51823
<211> 352
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-B4

<400> 51823

cgcctctctc taaccgccgg cgccggcgct tgcgccggcc atcgttcaca tggctgcat 60
gccaccggcc ttcacgggca acctgaagaa agcacttgca ggtctgagaa gaatcaattt 120
agatgggctt cgatggcgcg tatttgatgc taagggtcag gtgctgggac gattggcttc 180
ccaaatagcc gttgtgcttc aaggcaagga taaaccgacc tatgcgccac atgtggaaaa 240
tggagacatg tgcattgtac ttaatgcaca ggatatcagt gttacaggaa ggaaaatgac 300
agataagatt tactactggc atacaggggg gtattggttt gggccatttt tg 352

<210> 51824
 <211> 320
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-008-Q1-K1-B5

 <400> 51824

 gccgcaccgc gtcaggggtgc tcgtcagcgt ctgcctcgcc ttctccatgg ccgggttcgt 60
 cgccccctg agcgtcatct tcgttgtgat caggacgaag agtgccgagt tcatgccctt 120
 caccctctcc ttcttctca cctcagcgc cgtcgctgg ttcttgtacg gcctcttcac 180
 caaggacccc tacgtcacgc tccgaacgt gggcggcttc ttcttcgggt gcatccagat 240
 ggtgctctac tgctgtacc ggaagcgcaa gccggcgctc gtggtcgtcc tgccgacgac 300
 gacggccgcc gcagccgtgg 320

<210> 51825
 <211> 209
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-008-Q1-K1-B8

 <400> 51825

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 ggggtacacat aaataacggc acgagatcta ttatataata atacaatata tacaattcat 120
 tgatacgggt tagataatgt attgactgac aaaacttttg tcgacctgaa ctctataaca 180
 acgagcagat cgtcaactcc atagctttc 209

<210> 51826
 <211> 400
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-008-Q1-K1-C1

 <400> 51826

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 tcaactgaaa caatttgtga ttgatggtaa caaagttgtg ctcaagtgtct ccaatgctga 120

tacaaaggtt gatgatgctg aatttgaaga aaatgaagta tatgcaatcg atattgtcac 180
cagcactggg gaggggaagc ccaagttatt ggatgagaaa cagaccacca tctacaaaag 240
ggccgtagac aagaatatac ttgaagataa agcgtaaggt attttaggag acaccaattc 300
aatatgcctt tacctgctag ggcattagaa gagaagcgtg cgcgtttagg cttggtggaa 360
tgcatgaacc atgaactatt gcagccgtaa cctgtactt 400

<210> 51827
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-C12

<400> 51827

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tggaatcaa caatcaagg gtcggtgtta ttgatgttaa gcctacaaac atggaatata 120
tcaactgaggt gataacatct gctgaattcc atcctactca ttgcaatata ttggcgata 180
gtatctctaa tggctccatt cgacttggtg atctgcggca atcagccctt tgcgacaata 240
attcccaaata ctttgagcat catgatgcc catgttcaag atcatttttc actgagatta 300
tagcttcaat ttctgacata aaattttcga aagatggtag gcatattctc agtcgtgact 360
acatgactct gaagctttgg gatgttaaga tgaattctgg tctgttgca acat 414

<210> 51828
<211> 415
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-008-Q1-K1-C2

<400> 51828

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gttccccatc aagctttttg acgatgatat ccgacggctc gagcatgtgg actcagctcg 120
tagaactggt agacatgctg ttgcctccat cttggatcct tcaaagacga gggacatcga 180
ttacctgccg ttcttctact ccagagtgtt cacgttgtcc tggcaattct atggggataa 240
tgtcggggaa gtggtccact ttggagactt cacaagcagc agtccgaggt tcggtgcata 300

ttgggtcaac aaagggcgga tcgcnngnng ttgccccgtt tcttggaagg gggcggaaag 360
tcgggaagaa ggtaccgaag ggcccatatc cгнаатcgct gtnntcgggc gggaa 415

<210> 51829
<211> 419
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-008-Q1-K1-C3

<400> 51829

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tgagctcagt gaggatgaca agctgacagt cgcccgtaga agaaagattc agcgtttcct 120
gagccagcct ttccatgtcg ctgaagtttt cacgggtgct ccaggaaagt atgtggagct 180
gaaggaaagc gtgaagagtt tccagggtgt tttggatggg aagtatgatg acctccctga 240
gcagtcattc tacatggttg gtggcattga ggaagtcatt gctaaggctg agaaaattgc 300
caaggagtct gcttcataag gaggggcttc tttggctttg ggttcaacct ttgtnnacia 360
gttcacaaatt tttggaatnn tttaaagcgt ttaatttatg cctttttccc aagttaggc 415

<210> 51830
<211> 324
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-C4

<400> 51830

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gctcgcgttg ccaggcatgg ggttggccta gttgtgcccg ttgagcacta gcagcctcct 120
tgaaacctcc agatctgtgc ctccaaggcc ccgcttctc ggcaacaagc cgtccagatg 180
gacaccgccg cgccctgca actgaaagcc tgcgccggcg acgccgcgga gaagctgctg 240
ctcgcgctcg cagccgaggg tcctatctgt ggtgtgccag acttcaagat gaggggaaag 300
aagagtgatg agctcgaacc tgtc 324

<210> 51831

<211> 428
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-008-Q1-K1-C5

 <400> 51831

 agcgagaacg ccaaacgaga aaagtaacct aagccttcgc catcaaaaaa aaaagagaga 60
 gggaaaaaaaa agagcagaaa aagtagagta gactacgaca gcgtccggcg aggaggcgga 120
 ggcgaaagatg aggaagaagc tcggcacccg gttccccgcg gctcgaatca aaaagataat 180
 gcaagcagat gaggatgttg gaaagattgc actagcagtt cctgttttag ttctgaggtc 240
 tcttgaattg tttttacaag atttaattga ccgacttat gaaattactc ttcaaagtgg 300
 agcaaagaca ctgaattcct tccacacttt ggaaagccaa tggttggtgaa ggaaggtacc 360
 cagttctttt tgaatttcct taaacctgaa agtttgttca agcaaagggt accatgattc 420
 ttgggtgg 428

<210> 51832
 <211> 373
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-008-Q1-K1-C6

 <400> 51832

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 gcagccacca cgcaaggcag ctgcaattga gaaccactt ccagtcagcc ttgcagatct 120
 gtacaagggt gtcacgaaaa agatgaaaat ctcaagagag gctatagatg ccagcgggag 180
 aatctcaaac gcagaggata ttctgacaat agaagtaagg cctggttgga agaagggaac 240
 aaagattaca tttcccgaca aggggaatga agctccaaac atgaaagctg ctgatattgt 300
 tttcatcctc gatgagaagc cccatttga ttgttttttc acctccggga ttgggaaatg 360
 aatcttgggtg gtt 373

<210> 51833
 <211> 218
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-C7

<400> 51833

accacgcac cgcgaatatct tcttttccact ctttggcgct catgattcca ccaggatgcg 60
tcagcctcca cacatggcag gtgcaattga aaaccactt acagacagcc ttacacatct 120
gcacaactct atcactaaca agatcaaaat ctcaacatag cttatatatc ccagctcatg 180
taatctcaaa cacaacccat attctgacaa tctaacta 218

<210> 51834

<211> 322

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-C8

<400> 51834

gcccatttga gcctccgaag ccaaagacaa agcataaggt tgacattgac actgtcgagg 60
gattccagac actgcgtgag caagagcaga aatactttga tgaaatgggt cagaagtgca 120
aggatgctgg tgcaaccctg gttatttgcc agtgggggtt tgatgatgaa gccaatcatt 180
tattgatgca tagaaatctg ccagcagtga gatgggttgg tgggtgttgaa ttggaactga 240
ttgccattgc tacaggaagg cggattgttc cgagattcca agagttgagt cctgaaaagc 300
ttggaaaggc tggattaagt ca 322

<210> 51835

<211> 447

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-008-Q1-K1-C9

<400> 51835

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ccctagatct gacccgagac gccgcgtctt cgctgagatg gcgattactg tgaggcggtc 120
gacgatggtg cggccggcgc gggagacgcc gcggcagcgg ctgtggaact ccaacctcga 180
cctcgtggtg ccgcgcttcc acacgccag tgtctacttc taccgcgcgc acggccccgt 240
gccggatgcg gaggggttct tcgacggcga gcggatgcgg cgcgcgctgg cagaggcgct 300

cgtgccgttc tatccaatgg cgggccgnct cgcgcgggac gaggacggta gggtcgagat 360
 cgactgcaat ggcgagggag tgctcttcgt cgaggccgac gcgcccgatg cctctgtcga 420
 tgactaccgt gacttcgcgc ccaccat 447

<210> 51836
 <211> 322
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-D1

<400> 51836
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 ctacgggact gctggcggcg cagcctagcg ggcgcggccg agggaggcgc tacttctgcg 180
 gcgggaagga gcatcgggcg tcgcgcgcgg ggcggcctgg ccggctgaaa gcgcggcgcc 240
 gtgcgcgccc agagtcccgga cggcgaggct cgcggtcgcg gcggacaggc cgcggaggct 300
 ggtgctgctg ggcgccgata cg 322

<210> 51837
 <211> 328
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-D10

<400> 51837
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 cagataaaat taaaattaaa accaaccaac ataaaaata ctactaaaa taataacaat 120
 ctctctaatt ccctcctact cactgccata cattcccgta tattcactct cacggcttca 180
 ttcaactcgt ctatctccaa cttattacc tttacaacaa taattcccaa atctctaaac 240
 cccattatgc cccatgctca atatcatttc tcactcacct tatatctcca atttccaaca 300
 taccattttc ccccgatcta atacatat 328

<210> 51838
 <211> 323

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-008-Q1-K1-B2

 <400> 51838

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 ctagggttaa tatttgaata tttctgaaga gaaatTTTTT aagtacttct ggtggtgctg 120
 gaacaagttg aaggagaaga ctgatgatga tattcccatg ccagcctatt tcaggttcct 180
 cgcgctgctc gcattcaaga tttttctgct tgagcaggta gatgttgctg ttctcgaggt 240
 tggcctagga ggaagtttg atgcaactaa tgtggttaa gcacctgtag tttgtggcat 300
 atcttccctt ggatatgac ata 323

<210> 51839
 <211> 257
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-007-Q1-K1-H5

 <400> 51839

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 gtttgTTTTT tggatcgcaa gtttctcttc tgctactgtt gctgctacct ttgctggtgt 120
 tattgctagg gtcgaatact taagttaact atgcgctgac agtctggact agcagtgtta 180
 tgtgcgctgc tggacctgct gcgcaatgct gtggccgatt tgttcgttaa tgtcaagaat 240
 tgtgttacag tgcgtgt 257

<210> 51840
 <211> 432
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-007-Q1-K1-H6

 <400> 51840

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 ctggccagtg ccggccgagg ctagggttcc ggggatcgcg ggcgcgggct cgggctcgac 120
 tttcgtagcc tagccgccgc cgccggccgc gcgggggaac cggatgctat gctgctgagc 180

tgcgggtcgc tctcctcctg ggtgcgccgc ttcgtcgcct gcgttggagg ttgttttggt 240
 tgtgccccagc ctactccaat aatagctgtt gacaagccta caaaagggtt aagaattcaa 300
 ggacgctcag taaaaaggcg caacgtatca gacgactttt ggagctcgag cccacacgaa 360
 atggagaata gtgccttgca aatcccgcac agtatgtcct caatcagcac agcagcacag 420
 cctaattgatc ag 432

<210> 51841
 <211> 426
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-H7

<400> 51841

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 gattgcacta gcagttcctg ttttagtttc gaggtctctt gaattgtttt tacaagattt 180
 aattgaccgt acttatgaaa ttactcttca aagtggagca aagacactga attccttcca 240
 cctgaagcaa tgtgtgaaga ggtacagttc ttttgatttc ctaactgaag ttgtcagcaa 300
 ggtaccagat cttggtggcg ctgattcctg tggagatgaa agaggattac ctagaagaag 360
 aaagtcaaat ggcagtgacc cagagaatga tgaatcaaga tctagtaaaa tggccataag 420
 aaatgc 426

<210> 51842
 <211> 286
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-H8

<400> 51842

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 ctgcacaggc agctcttata togatgacaa gtttgatctc ccctttacta ctcttgccaa 180
 gaatgctgcc ttacctcaag aacaagaatc cactgatccg agcaaaagca tcaactgtgtt 240

tcatctaaag tgtaccactc cttgatgtgc tgggaatcaa agaata

286

<210> 51843
<211> 401
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-H9

<400> 51843

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ctcgtggtca tggacacctt tgtgttcgtt aggagggggt cggggtggaa cggtgaaaag 120
gaagctgtag atagaaaagg caggcgtctc atgctcttgt tgtctagtct aatttttaat 180
tttactcggc ttattaatca cgggtactgac tagctgcctc aaaacctgct cctcccagca 240
gtaccttgag ctgtatcccc gagattcctt aaccagcgcg aaccaatata ctggtgcgtg 300
ttctcctgca aatgagatgt tctgcaccta tgtttgtaat gttgtatttc tgggttttta 360
agctatccaa cttggagata caaccggtga ggaagcaaca a 401

<210> 51844
<211> 261
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-A1

<400> 51844

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gccaggggta ctagcattaa agggccgtag accgctagga cgtacacgtg gccgtctcgc 120
acaatacgag tacaatgcga tgcctggact acgagaggaa cctgctcacg taaaccgagg 180
tggacgccat cggactcctc tagatgtagt cctacatctt caagcacacg aaccgtgaat 240
atgcgactgt gactgtgttt t 261

<210> 51845
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-A10

<400> 51845

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tccgcagcct cctcctgaga ggatcacctt cactctccca ctgatcaact cagcatccaa 180

catagcaata gtgtccactg gtgatgacaa agcaaaggct gttcacatag cagtttctga 240

catggccgaa ggtcttgatg ctctacatc actgcttgc agaatgggcc agccaacgga 300

cgggaagctg gtatggtttc tggacaaggc ggcgccatca ttccttgact ccaagaacga 360

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tgaagcgaat gaacggaggt gtgtgt 446

<210> 51846

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-A11

<400> 51846

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agggcggcgg cggcgccgga gggctcacgc gggggagctt cccaaggga ttctgtcttcg 180

gcaccgcctc ctccgcttac cagtacgagg gagcggtgaa ggaggacggc agagggaaaa 240

ccatctggga caagttcgcg cacacgtttg ggaagggtgc agacctgagt aacgccgatg 300

tgcgggtcga tcagtaccac cggttcgagg aggatataca gctcatggcg gacatgggga 360

tggacgcgta ccgcttttcg attgcctggt cgaggattct gcccaatggt accggccaag 420

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<210> 51847

<211> 425

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-008-Q1-K1-A3

<400> 51847

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acgatgccac caagctgcag gaacttgacg atatgaagcg ccggctcaag gaaatggagg 180

aggaggccgn cgcgctccgc gagatgcagg ccaaggttgc caaggagatg caagggtgtag 240

atcccaatgc aaccacatct gaaaacaaag aggagatgga ttctcgggtca gtattcattg 300

gaaatgttga ctatgcgttg cactccagaa aggaaaaagt gcaagcaagc acttttccaaa 360

ttcttggtggg aacctggtca acaggagtta ccaaatcnct gactggggac aagtttgggg 420

caacc 425

<210> 51848

<211> 370

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 51848

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acaccncagg ctatcatata tgttgtgatt caagcataca atggctgtac acaagagaat 180

tcatgatctt gagaggaact aaagggcagt gtcttggtatg caatacagac ttcaggcctc 240

gagatgctgc aacaatatta gactccaaat aaaccgcaat gggcgatttt caaaacatct 300

gcaataaagg gagaggggct cttcgaaagt ttggactggc tcagtaacac gctncaaadc 360

tggaagcagc 370

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<211> 326

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-A5

<400> 51849

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gagaggagga tcgacgcctt ggactaccgc accggcgagc ggcgccccat cgcgcggaca 120
acaggccgga cgcgcgcaa cggggacgac ctgaacgtgc tggcttcctg cgaaggcctc 180
ctcatcctcc tcgccaacgg cggcctccag atctgcaacc cggcgacccg ccagcgcgcg 240
ccactcactc ttctccacgg cgcctattgc atctccgcgc tttatcctca catcccgctc 300
aggtcgtacc gtgtgctctg ctggct 326

<210> 51850
<211> 140
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-A6

<400> 51850
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caatgctaag agtctacttt 140

<210> 51851
<211> 329
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-A7

<400> 51851
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tcgagatctt cctcccataa tccacacctg tcggcaccct ccgcgtgcaa ggagtgcaga 120
tcgttatgtg acaaaccogt gactaggcaa agacgtatca gccgctcgag tgtgtgagtg 180
cgtcatgaca accgattgac acacgtataa gtgccaagta tccagtgaca caggacgggc 240
catccctccc agacgcagca gtcgggtctca tcttttgcac ggcacaacac gcttgaggac 300
cgggcccgcac gcctatgctg acatacaac 329

<210> 51852
<211> 450
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-A9

<400> 51852

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ttggcatgtc ctgtgagggc tgtgttggag ctgtcaagcg ggtcctcggc aagatggaag 180
gcgtcgagtc ctacgacgta gacatcatgg aacagaaggt caccgtgaag ggcaatgtga 240
cacctgacgc cgtcctgcaa actgtttcca agactggcaa gaagacttcg ttctgggagg 300
ctgaagccgt gacaagtga tccgccacac ctgccggtgc caccgctga caggttcgat 360
gatctggaag tgcccggcaa ggcggcaaag aaaaaaatg tgaatgtatt tagcttggat 420
ctgttacaaa taattgcaaa ctgctagctc 450

<210> 51853

<211> 322

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-B1

<400> 51853

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acaaagatga acggtctctc atttaagctg aacctctacc tgtattgata tccctggatt 120
ttttctgagc caccacctgt tgtgatttgt gaacgttgta agaatagggt tctttgcttg 180
ggttcgcttg ttgctgtcga aaatatgtaa cgaatgttat taataaagaa tttcttgtat 240
gactttaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa gaaaaaaaaat 300
ataaaggaaa caaacattaa aa 322

<210> 51854

<211> 326

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-B11

<400> 51854

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gactattgaa ctgaccgtag cgctcctgtt atgtggatga agtggaatgc tgatatgggg 120
aacggacttc atcacctgca agtgcaaatt gatatgcatg gtatgagcta gctcaaagtg 180
gatgggagtg atggtacatt ctacatgtgc aatgaaccct gttgaaaacg acagcattgt 240
tgctgagatg ctgcggagat attacgactc tgttgaacta tttgatgtca ctaatgaact 300
aactgaatta gtccgtcgtc ctggac 326

<210> 51855
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-H4

<400> 51855
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ctgtgaagct gcagaggcag ctcttatatc gatgacaagt tggatctccc ctttactact 180
cttgccaaga atgctgcctt acctcaagaa caagaatcca cggatccgag caaaagcatc 240
agtgtgtttc agcaagagtg taccacgcct tgatgtggtg ggaatcaaag aatatggtat 300
ggataagctc atccaaattg cggcaacca acttagcgac cagcttcttg aatcaaggga 360
ggctgctcgc aacctggcac tggaactgca agcattctat gagaagtc 408

<210> 51856
<211> 272
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-G11

<400> 51856
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ttttttttat attttaattt tttttttatt attaatataa ttttaattta aattttaaaa 120
aaaaaataaa aataaacaat aacttcatta aactatataa tataataaaa aacaaaataa 180
aaataaacia aaataaaaat attaaaaaaa aaaactaaat caaaaaccat aatataatac 240
aacacattac cataaaaaaa taacattaca tt 272

<210> 51857
<211> 370
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 51857

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ggttcgtgtg tcataaacc caaatgatgg agaacacgag aagtaccgtt tggagggttt 120
gatggagagt ccagccgtcg atgatgatgg ggaatgcttc tctcctatct tattgaatgc 180
aacttctttg aatgttgaag ttattacaa caaagcagtc aactacacac tgatgggtcac 240
ttttatctct ttccttcaag ttttgctgct gattagacaa atggagcata acaacacaca 300
atctggagct gctaagggtt ctattntaat gattggccaa caagctatca tggatgcata 360
tctctgtcta 370

<210> 51858
<211> 429
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-007-Q1-K1-G2

<400> 51858

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gcgcgcgtc ctctggcct acctccccgc cgacacctct cccgcctcct ggaccgttac 120
ggcttcgtgg ccccggaact cctcaccg gccccgcgag aacctcacag cgacaccgcc 180
gactccgccg ccgctgcgaa gaagcgccgc gcgaagaagc cgccctaccg cctccgtcc 240
tcgctggacc gtggcggtcg cccgccccgc cactccgacc tccccctoga ctccgcttc 300
agctacaccg agagcacccc ggctncaag cccatcgggc tgcgcgagcc caggtactcc 360
ccgttcgggc ccgggcgggt cgaccggccc tggacggggc tctgcgcgcg cgccgtcgac 420
gctaccctg 429

<210> 51859
 <211> 423
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-007-Q1-K1-G3

<400> 51859

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gccccggcct gcggcgccac cgctccggcc ggcgtccctc cgcgccgccg caatcgctt 180
cgccccctcc ccgcgccggg tccgcgtctc cgtcgccggg cgggccagga tccccctcgt 240
cattgcgatg gcttctgcca aggaaggaaa tggcgcaccg accaagaaaa cctcgcttca 300
cgatctctac gagctccagg gcctctcccc gtggtatgac aacctctgcc gacctgtcac 360
cgacttgctg ccccttatcg ccagcgggtgt tcgtggagtc accagcaacc ctgcaattnt 420
cca 423
  
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<210> 51860
 <211> 399
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-G4

<400> 51860

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tttcgttatt ttttctttac tctttttttt tcttcctcct ttgcttggtc aattcaatca 180
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acaacggggc gagctcctcg tcgtcgaggc tggaccggc ggcgccgctg ctgcgcgcc 300
acggcagcag cgggggccgc gaggggtggtg gcctgtcgtc gcagcccaag acgttcgcca 360
acgtcttcat cgcggtggtc cgcgccggcg tgctggggc 399
  
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<210> 51861
 <211> 396
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-G5

<400> 51861

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ccaacgctct tgtcaatatg atcagcaacc ctgtcaactc cactgtcccc attgcggcgg 180
aggttttcaa gaaggctggt acttatgatg agaagaagct gtttggtgtg actactcttg 240
atgttggtcg tgctaaaact ttttatgctg gaaaagcggg tgtgccagtt actgggggtga 300
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<210> 51862

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-G6

<400> 51862

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gagacaacga cgatggcgtc gtctgcctgc ttgtccaag cttccacggc cttcgctcca 120
cgcttctccc tcccgctccg accccagccc ccgctacacc tgcgtctccg cggctcccc 180
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tgaagggtgt caaggtggca gccaaagacga ggaaagtacc tgccccggaa attctctcgg 360
cgctgtccaa gatcaagaag gcaaaactcg acacgtcggc attctttgag accactcgtg 420
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<210> 51863

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-G7

<400> 51863

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atcccgggtgt ctacgcagcg ggggcggcgg cgtcgagctc ttgctttctg tgggaggacg 180

catggcgatg tctgcggggc gtgggctctt ggtcctcttc ttctctgccg ccgtagtgggc 240

tgagctcgcc tctgccgcga acggtccttt cctgtccgat agcgtcttcc agtcgagcgc 300

cggatctaca gggaggagct tgctgcaggc caagaatagt tgccctgtga actttgagtt 360

ccaaaactac acaatcatca caagcaagtg caaaggaccg aagtttccag ccagccaatg 420

ctgtg 425

<210> 51864

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-G9

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gcggcctcaa ggggaagctt ggcgtcgagg atgccccga gctgcagctg aatcgcatcc 120

gcataccct ctcatccaag aacgtcaaga acctggagaa agtttggtgcg gatttggtaa 180

agggagccaa ggataagcat ctgagggtta aggggcctgt caggatccct actaaggttc 240

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agttccgcat ccataagagg gtgatcgacc tgatcagctc ccagacgtg gtgaagcaga 360

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<210> 51865

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-H1

<400> 51865

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caagaagaag tagaaacctt aaaggctcag gcacaggcct caaaggagac catggacaat 360
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ag 422

<210> 51866
<211> 370
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-H10

<400> 51866

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ttataattgg 370

<210> 51867
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-H11

<400> 51867

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ggtgctgtgg acggagagca aggacgtggg caagggcttc cgctgcatcc gcatgggtcaa 180
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 cctggcgcc 429

<210> 51868
 <211> 416
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-H2

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<210> 51869
 <211> 429
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-007-Q1-K1-H3

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ggtcatgtc 429

<210> 51870
<211> 346
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-F9

<400> 51870

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agaagtgcct gagggatgcc aagatggaca agagcaccgt ccatgacgtt gtacttgttg 240
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<210> 51871
<211> 418
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-007-Q1-K1-E5

<400> 51871

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gaagttcttc gcgagtattg ccatcaagat tttgtcggaa cagctgtccg gcctgcaggt 240
catcctgatc atgaaaaaca cgagatacat tcagttgcag gtggaaagat tggcgcggga 300
gtgcttcttt ttcctcagcg aatcgtttct gtctgatgaa gcaaacttag gatggttctc 360

agatacctnc acgcacacaa gaaggatgca agtggcagca cgggtgacct acgtcttc 418

<210> 51872
<211> 366
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-E6

<400> 51872

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cgggccgttt taaagaatcc aactttactt acccttgctt ccaacgtaat accttttcta 180
tagggccact taatttaatt tcattgcccc cgtttttaa cgcgtgaaac tgtaaaaacc 240
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ccaaaaaggc cccaaccaat cgcctttcca aaaagttccc caccctaaat gccaaatgga 360
accccc 366

<210> 51873
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-E7

<400> 51873

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ctacttcaat gggcttcgaa cacacagctg tgcaagccta taggctacaa caagcaactt 240
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caatacaaac catctcatcg caacagcaac aacaattact accagcactg agccacctag 360
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tggcaaacgt ag 432

<210> 51874

<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-E9

<400> 51874

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ggagtaggtg caacagaaac tgctcgaggc ggaggcggag cctgoggctg cacagacatg 120
ggtgatcacg aggcgcgcgg tgatgacttc gagaagaagg cggagaagaa gctctcgggc 180
tggggcctct tcggctccaa gtacgaggac gccgccgacc tcttcgacaa ggctgcgaac 240
tccttcaagc tcgccaagaa ctggagcaga gctgcatcag tttacatcaa gattgctaac 300
tgtcatttga agggagatag caagcatgag gctgcctcag cgtacgtcga ggcagcaaatt 360
tgctacaaaa agttttcacc tcaggaagct gcgcaagcgc taaaccagtc tgttaattctt 420
ttcttgga 428

<210> 51875
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-F1

<400> 51875

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gtggtcttat agatcatctt ggaattgagc ctttgatgat ggaagctctt gagaagattg 180
agaaggacat taagaaacca cttttgagga gcgacaagaa gaacatggcc accctcttgg 240
cagagtttga caagattaac aaaaagcttg gctttcggaa ggaggatctt cccaagatcg 300
aggaagagct tgaattggaa attgccaaaa gtgagctgac tgaacttaag aaggaatgcg 360
ttgaagcaat ggagactcaa ctcaagaggg aggagtttca agatgaggag atgcctgatg 420
tcaggaaat 429

<210> 51876
<211> 413
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-F10

<400> 51876

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attcctaggc tgtaccgccc atctttctct acctgtttgt aagatatgac tttagggggt    120
tcggccttta ttatccctag taggcccatt ggaataggaa cttttttggc attgcacatt    180
agaattttca agtgttggca tggctgttta gttctatggt ggtgactcgt gacctgtata    240
atataattta gacaatggaa tatacagcat ttgtggtaca gccatgtgac aaaaaaaaaa    300
acaaaataat aacataaaac aaactaaaag ctaaaaaaaaa aaagagatac tatacatgcc    360
aatttattaa aaaaattcat tcttacacaa aaaaaaaggg gcggcctctt ttg          413

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<210> 51877

<211> 411

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-007-Q1-K1-F11

<400> 51877

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cctccagcgc gggggcgggc tgcacggcga ggcgcagcag cagcagaagc agggcgccat    180
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cttcagcccc gtgctggtgc cggccgncat cgcgctggcg ctcatggcgg ccgggttcgt    360
cacctccggc ggcttcggcg tcgctgcgct gtccgtgttc tcttgatgt a          411

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<210> 51878

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-F2

<400> 51878

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 tccttacacc tcatggatcc ctataactgt ttatatctgc ctgcgcaatt gctcccagca 180
 gttgaggagt gcctctttgg tccttttcgc atggcttgac aagattacac tagagactta 240
 tatctctcag atccatattt ggcttaggtc tagcatgcca aatggacagc caaatggct 300
 tctttgtttc ataccagaat atcctatget taacttcatg cttactacgg cgatctatct 360
 tcttctatca taccgtgtgt ttgagatcac gaatgtcttg aagtc 405

<210> 51879
 <211> 430
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-F3

<400> 51879

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 taagctgcct cacatccctc gccctaagat gaagggttgc atgcttggtg atgctcagca 180
 tgttgaggag gcagagagaa taggtataga caatatggat gtggaagccc tcaagaagat 240
 gaacaaaaac aagaagctag tgaagaagct ggcaaagaag taccatgctt tccttgcatc 300
 tgaggctatc attaagcaaa ttccctgtct tcttggtcct ggtcttaaca aggcaggaaa 360
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 tacagttaag 430

<210> 51880
 <211> 182
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-F4

<400> 51880

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 aaacatgttc tgggttcaatg atgaatactg gaatcgacac ggaaaaatat actgtgacat 120

tgcgacagtg caacacctaa atacaaagac ttggaaacaa acaacttgct ttgttctgtt 180

ct 182

<210> 51881

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-F5

<400> 51881

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aagaattaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa acaaaaaaaaa 120

aaggccgccc cttctaaagg atcaaacta actaaccctt cttccaatg aataactttt 180

actaaaatct ccctaaatt aaattcactc cccttttttt aaaaacttct tacctggaaa 240

aaccttggct ttaccaaact aaaaccctt caaaaaaatc cccctttaac catctgcca 300

aataacaaaa agcccccaac caatccctt tccaaaaaat tccccacctt aaatgccaaa 360

tggaaccccc c 371

<210> 51882

<211> 419

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-007-Q1-K1-F6

<400> 51882

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gagaggctac attcttgacc aagttactgc tgcaaaagaa gaattgaggg caaacggaa 120

aaaggagctg aagaaagaca gtgcgtccaa gataaaatct cttgtagatg agggaaaata 180

tgaagagcag tttgaacgat cggatggatt tcagcagcaa ttaataatta aagtacgtga 240

aattttgacc gacaaagaat ggcgtangag aaaaatgcaa atgaggatat cagaggaaga 300

aggaagactt aagaaggatg aggaggaaac aaaagagatg tggaagagga agagagagca 360

tgaagagaag tgggaggaga ccagagacaa gcgggtctnc agctggaggg atttcatga 419

<210> 51883
 <211> 347
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-007-Q1-K1-F7

 <400> 51883

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 ctaccctctg ggaggcttta catacaaacg cggccatccc atctcatccc ttttctaaac 120
 tctccacaaa cttcaattaa cttaccatca tcattcaccc ccatcactat caaaacactt 180
 tccttaccaa cattaatctc catgtactac atacaccata ttttctaccg cctttttatc 240
 aaaaacccca ataccaatta ccctttcaaa caaatccaca acctaaatgt ccataaaaac 300
 cctccctctt ccaacccttt aaacactttt aactctaata ttttact 347

<210> 51884
 <211> 430
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-007-Q1-K1-F8

 <400> 51884

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 acagctggaa ctgcagctga gaacattcag caagtccagc aaagttcgaa agatattcaa 180
 agcaagtccc agggcgcttc aacaaggagc tgtacaaagg ttcataagca aggagttgag 240
 cttggccggt ccgtggacct ctctaaattc accgactacg gtgagctcaa agcgggaacta 300
 gacaagatgt ttgagttcga gggcgaattg gtatctgcta accggaactg gcagatcggt 360
 tataccgaca acgaaggatga tatgatgctt gtcggagatg acccgtggga ggagttctgc 420
 aacatagtgc 430

<210> 51885
 <211> 415
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-E4

<400> 51885

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gagaggagga tcgacgccct ggactaccgc accggcgagc ggcgccccat cgcgcggaca 120
acaggccgga ccgccgcaa cggggacgac ctgaacgtgc tggcttcttg cgaaggcctc 180
ctcatctctc tcgccaacgg cggcctccag atctgcaacc cggcgacccg ccagcgcgcg 240
ccactcactc ttctccaagg cgcctattgc atctccgcgc tttatctctc catcccgtcc 300
aggtcgtacc gtgtgctctg ctgcttcgag agagccgagg acggccaacgc cgtgtaccac 360
gtgcacaccg tcgggtcgcg cgagctcagg tgcgtcggag aaccttccgc gccgt 415

<210> 51886

<211> 405

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-007-Q1-K1-C8

<400> 51886

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gttctccacg ccgccgtcgc cgccgccgtc gcgttggtta ggttgacctg accgatcttg 120
acttctctag gctcttgcat ccccgacgac ggaaatagcc tccgagtttc caacaggggtg 180
gctccggtcg accacgaagc ctgatctgc atgacgaggc tactcgtcac cctgttcgcc 240
ggggcgaccc tagtagtcgc caccaccgcg cagcagcacc atggtgaggc gccacactgc 300
gccggaggca gcgagcacgt gcttgcgagg ttccgccccg gtgaggtgac cgtggacggg 360
cacaacgagg actgggagag cgtggaggcc tcngagttcg cgctg 405

<210> 51887

<211> 373

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-007-Q1-K1-C9

<400> 51887

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cattatccat ggcggaggag aagcaccacc accaccacct gttccaccac aagaaggacg 120
aggagcagct cgccgccggc ggggtacggcg agtccgccga gtacacggag gccacggtga 180
cggaggtggt gtccacgggc gagaacgagt acgacgagta caagaaggag gagaaggagc 240
acaagcacia gcagcacctc ggcgaggccg gcgccatcgc cgnccggcgc ttcgcactct 300
acgagaagca cgaggcgaag aaggaccgag agcacgcgca ccgtcacaag atcgangagg 360
aggtcgcggc ggc 373

<210> 51888
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-D10

<400> 51888

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aacttcaaca agcagcgggc ggggtctcggg cggcgcgagg gcgcttggtg gacgacgctc 120
aagcggaggc gggcagcgct tgggagtcag gcgtgcgacc ttgcggctgt gctcaggcgg 180
ggcgttgctg gaagcgctag ggagtcgggt gtgcgacggg cggcgctcgt tcctcaggca 240
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atccaggctc aggtccaggt taagtattgt tttttggtgt gtggacgtga ttcttctagt 360
gagatatgtt ctgaagcggc aaggtaaacc ctcttagtct acttgtttaa cttttaaaat 420
atacc 425

<210> 51889
<211> 197
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-D11

<400> 51889

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taatttaaaa aaaaaaaaaa aaaaaaaaaa agaaagaata aattaaaaaa aaaaaaaaaa 120

aaaaataaaa caaaacaaca aaaacattaa taatcaaaaa ctcatctcat tctctcaaaa 180
cttcataatt ttccttt 197

<210> 51890
<211> 259
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-D12

<400> 51890

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taacttaaac aaacaggaaa aaaaaaatcg accaccactc taacctcttc ctgttctaac 120
tctccttcca tgccacgcaa tactttttat ttaggcctac ttaactttcaa tctcatttcc 180
cgccgttcta caacttccat cactggaaaa tcccttcttt taccacttt attcgctttt 240
ctataatttc ccatctacc 259

<210> 51891
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-D2

<400> 51891

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aattattttg ggcttggtta tggttggaag agcggcattt gtattccctt tgtcgttctt 120
atccaacctt agcaaaaagg aggcccgctc aaagatctcc ttcaagcaac aagtaatcat 180
atggtgggct ggtctcatga gaggagcagt gtcaattgag cttgcctata acaagtttac 240
agcatctggt cacactgaag tgcgagtcaa tgctatcatg atcaccagca cagttattgt 300
tgttctattc agcacaatgg ttttcggcct gctgacgaag ccgcttctca gtctcctcat 360
cccaccaagg actggactga acacgtcgtc tctgctctca agccagtcta tgctggaccc 420
actcc 425

<210> 51892
<211> 427
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-007-Q1-K1-D4

<400> 51892

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acaatgggta cttcaatggg agtggatggc tcatttgtat catccatgtc ctctgatatc 120

tctgttgaag aaagcagctt tcgacaactg cagaatgctg ttagtcagct ggatgtgcaa 180

accaaattgt gcattagaga tggtttatac cgattggcac gaagtgcgca gcacaggcaa 240

gttattccaa atatgatgag cagcaatgaa gacaacccgg atataaagga tctgcagaat 300

gcagaaactn tgcgcaaatt cgtcgatcct cggagcatcg agacacagac aaacccgatc 360

gaccggtcta tcgctctgct actnttccac cagtcatcgg accatgcggc tgtggctgtc 420

gacgatg 427

<210> 51893

<211> 411

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-007-Q1-K1-D6

<400> 51893

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ggttctgtct gcgatctgcg cttgtgcgat cggccgtcat gttacggcac acaacgacgc 120

cggcgtctgt cgtcgtccgc ttgatcggca actgggtagc gtcgcatcga acgagcgatc 180

ttgtcgcttg atccattgat ccaactgtgt tggaagaacg gcgtcgtctg caaacagcga 240

ggcagagaag cttcggggcg ggcaaagcag cggcgtcttg cgcatagcta cggcgggcgt 300

ggacagaaca gcggcagggc ggngagaaaa gacaaggttt gatgtgatgt gtatttgaca 360

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<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-D7

<400> 51894

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ggcaaaaggg catcatgaag cttcacggat gtcaattgag acagggccct actatttcca 120
ctacattatt gagggcagag tatgttatct gactatgtgt gaccgctctt atccgaagaa 180
acttgcatte cagtacctag aagatctgaa aaatgaattt gagaggggtca atggcaacca 240
aattgaaact gctgcaaggc catatgcttt tatcaagttt gatacattca tccagaagac 300
taggaaactg tatttgata caagaactca aagaaacctc gcaaaactga atgatgaact 360
ctatgaggtg catcaaatta tgactcgcaa tgttcaagaa gttcttggtg ttggtgaaaa 420
gc 422

<210> 51895

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-D8

<400> 51895

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cattacaacg gaagaatgct tgctgaatcc taataggaac cccaacatga ccaaactaga 180
gatagagaat gagctgaagg attttcttgg agtctcgaag gtcattctgga tacctcgtgg 240
actttatggc gacgaggata caaacggcca cgttgacaac atgtgctgct tcatcaaacc 300
cgggtgtgatc ctgctgtcgt ggaccgacga cgagaaggat tatcagtacg aacggtcggt 360
cgaggcgctg tctgttctct ccagtcctgt cgacgcg 397

<210> 51896

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-D9

<400> 51896

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cgtgtccagg acacagggtta ccaggattgc ctctgatggc ctgaagcaca gagtctttga 180
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cgataagctc agatctctag taaagaagtg gcagacattg attgaagccc atgttgatgt 360
caagacaacc gacaactaca tgctgcggtt gttctgcatt gggttttac 408

<210> 51897
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-E1

<400> 51897
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ctttgaagaa cccttgcaag attatcagcg tgctgtacac tctatacaag ccactatgct 120
tgatcgaacc aatgctttca agcagcacta cgatatgaat catgagaggc tgtatcaaga 180
gcttaatctt gacatattca agttcatgaa ccctgaaacg tatgccgaag cacaatctga 240
gtttccagac ttgaaagcag aactgagga ggctgctcac atatttggac tcatggatgg 300
actaatgaat gaagagcatg ctcgtttgcc agatcatatt acatttgata ttggactatc 360
attccatgaa tatgc 375

<210> 51898
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-E10

<400> 51898
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cagaaggctg ccacctaata tcaatgcgaa gagtacatca agcctggata ccccttata 180

ctgccatcgt acgccagtgt gtgttgcgac aaggtgagag atgtgccaaa tagggacatg 240
aactgcatcg tcgatctgct cacgcctcca gagaaggcga aacacgggtgt cgacaagata 300
aaacgtctga aagatctctg cgacaactcg cctcatcatc aggtgggtggg gtagacagac 360
agcagctgtc attgctaatt gagttcggag gcaagatata tgggtctaagt aataaagtcg 420
tcgatcaaag c 431

<210> 51899
<211> 348
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-E2

<400> 51899

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gccgatgaat ggctaaattg atctgttcta gtataagcta ctatcaatat actgtacact 180
tgctaattaa aagaaagaag ttttatgtat gaatgaactg caacttgagt cattgaaaag 240
ttgttgctgg ttttcttttag tttgagttag gggatgcgtc atgcgtgggt ttgaagggtg 300
tctgcttgca atattacatc ataactctgtg actgatgcac tgatgtct 348

<210> 51900
<211> 431
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-007-Q1-K1-E3

<400> 51900

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ggtggtgatg gcgacgacga gcacaggcgg tggcagggcg gcagcggcgt gcgatcccaa 180
gccgctgggt gtgtgcgac cggcgttcat ggacggagcg aaacccgcgg cagcatgctg 240
ctccaccctg cgtgcgagcagg aggcattgct gtgcgtgtac gccaaagacc ccaagtttgc 300
aaaatacatc aacaacccca acaccgtcaa aacctttacc tcgtgcggca tagccatccc 360

caaatgctaa gcaagcgctc tgcgtcgtcg cttcgttgc tcttgctctn gtgtgtaaca 420
tatccagctt a 431

<210> 51901
<211> 365
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-007-Q1-K1-C6

<400> 51901

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cgaggtgctc ctggtcatcg aggcctacaa gacgctgcgc gaccgcgcgc cctacccggc 180
cagcttcatg ctgcccagc tcaccggctc ctacgccttc gtctcttctg acaagtccac 240
caactccctg ctagtgcgat ccgaccccgga gggcagggtg ccgctcttct gggggatcac 300
cgncgacggc tgcgtcgctt tcttcgacga catcgacatg ctcaaaggct catgcggcaa 360
gtcgc 365

<210> 51902
<211> 313
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-A8

<400> 51902

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caagatccag aacagggagg gcatccctcc ggaccagcac cggctcattt tggccggcaa 120
gcagctcgag gactggcgca cgcttgccga ctacaacatt caciaagaga gcaccctgca 180
cttggtgctg cgtctcaggg gtggcatgca gatcttcgtg aagacactta ctggcaagac 240
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<210> 51903

<211> 425
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 51903

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cctcttccaa taatgcagcc ctgggagctg ttctcaatca gcagttcgct atacagctag 180
gcctgttcac agctttaccc atgattattg aaaattcact tgagcacggg ttcctcactg 240
ctgtgtggga tttcatgaaa atgcagctac agtttgcata tgttttctac acattctcca 300
tggaacaaa gacacactat tatgggagga caatccttca cggaggagcg aaatatcgag 360
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ctcgc 425

<210> 51904
<211> 342
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-B1

<400> 51904

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cttccccgct ttcacaaac ccatgacca gtcccatgtc accggaggct tctggctggg 180
cctcccaaat catttctgcc ggaagtacct gcccaagcgt gacgagacga tcaccctgct 240
ggatgaggat gacaacgagt cctacacgct atacctcgca ttgaagcgag gcctcagcgc 300
tggatggaga aggttcgcta tccagacaaa gctggttgat gg 342

<210> 51905
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-B11

<400> 51905

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gatgtatata gctatggagt tgttctactt gaactactaa ctgggaggag gcccgttgat 180
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agtatactat cttcagttcc tgtgtgattt tacagctaaa ttggaatatt ttaacgtgat 300
gactctcaga cactctggat tgtgtgtgca tacgttgttt ttatgtatgt gtgggcagct 360
gacaactgga atttaaactc gaaattgctc gtatatatat atatatatat atatatatat 420
atatata 427

<210> 51906

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-B4

<400> 51906

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tctggctctc ctccaatgtc tgaagctgag gctcatgctt ttgaagtcaa ctcttttgac 180
ctctacaaag aattatcagg gcttgttgag ttaggaggca tggacaataa cttcaacacc 240
agcaatgtgg aaaccacaga ttaccttgtg ctgccacctg acagagaatt gtccacggat 300
ggttacatgg aacttaatga tctccttgct tctgattcaa gcttccccat cccagtgaa 360
tttctgctc aggacaatca atctatgcag tctcctctgg ctgagtacaa tgtgcattat 420
gatgt 425

<210> 51907

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-B5

<400> 51907

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 aaccaaatga agcacgggtg aatgttccag atgaacggtt tgattggctt tgcaaacttt 180
 acaagccaaa gagtgagggtg cctgcatatc ttgaagtaac tgacatagct gggcttatta 240
 gaggtgctca tgctggggat ggtctgggca atgcattcct ctacatatata cgtgctgttg 300
 atggaatctt ccatgtccta agagcatttg aagacgcaga aattactcat gttgacgata 360
 cagtagatcc tgtagagac atggaaacta ttagtgaaga gctcagacta aaagatatag 420
 agttcatgaa aa 432

<210> 51908
 <211> 235
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-B8

<400> 51908

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 ctaatagggt atgcattagg aggtaaaatg catatgagag gggatatgca aaatacagta 180
 ttgatttgca tatgcatgat ctgttgagg aatctatact atatgttttt tttgt 235

<210> 51909
 <211> 383
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-B9

<400> 51909

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 ggccgggtgct gcagcagtgc atgtgcctcc tgatccaccg cgcctaacgc cgagcaagat 180
 gagatcagtt cttttcttcg tgtgcatttg cttcctgttc gtgtcgacgg cgagggcgga 240
 agggccctac cagttcttcg attgggagat cacgtacggc agtatcagcc ctattggatc 300

tctacaacag ggaatcctca tcaacgggca gttccccggg ccgaagatcg agtgccaaac 360
 aaacgagaac ctgatcatta acg 383

<210> 51910
 <211> 347
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-C1

<400> 51910

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 ggaggtcagt ctgggttgctt gcctacattg cttttgtaac atcctggccg ctgcttggct 180
 ccctagcttt catcaccttc cgaaaaaagt ccaggaatcc gttgcgagct aaatgaatca 240
 tacttatatt atgttattac aattacatca tgcaacatcc tctgagctaa aaaaaaaaaa 300
 aaaaatgcaa gaacaaaaaa aaaaaaagaa aaaacattaa caagctt 347

<210> 51911
 <211> 431
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-C10

<400> 51911

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 gtcccaggcg gtgatctggc caaggtgcag cgtgccgtgt gtatgatctc caactccacc 180
 agtgttgtgg aggtcttctc ccgcattgac cacaagttcg acctcatgta cgccaagcgc 240
 gccttcgtgc actggtacgt cggtgagggt atggaggagg gcgagttctc cgaggctcgt 300
 gaggatctgg cggcgcttga gaaggactac gaggaggctg gtgctgagtt tgacgagggt 360
 gaggacggcg acgagggtga cgagtactag acgctctact ggcgcggcgt cgtcgggctt 420
 gtgtgccact t 431

<210> 51912
 <211> 455
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-C2

<400> 51912

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cacgctgtca cgcaagggcg ccaacgaggt gctactcgtc atcaaggcct acaagactct   180
gcgcgaccgt gcgccctacc cggtcagctt catgctcgcc cagctcaccg gctgctacac   240
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ggtgccgctc ttctggggga tcaccgccga cggtcgctc gccttctgcg acgacatcga   360
catgctcaaa ggctcatgcy gcaagtcgat cgcgccgttc ccgcaaggct gcttctactc   420
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<210> 51913
 <211> 399
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-C3

<400> 51913

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ggagaacatt caggatcttg accagcttaa ccgcaagctc aaccagatcg atgatgaggt   180
cgccatcttc catcatatgc aagccaaagt ccacaaatac attcacgaac gtgaccata    240
cttcatatca tctgatgcta caagatcatg tataaccag gccttgacat gttggaaata   300
tagattatgc tttcacccca caataagtgc atcatcattt ccaagcatgt tgaactatca   360
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<210> 51914
 <211> 422
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-A7

<400> 51914

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aaaattggta ggagaaaaaa tataataata atactaagta ataattgtgt gagaatttgt 120
aaaacctttg agacttatta gtgcctttcc ttttcataat caaataatga tattaaaatg 180
gtcgtgtaac caataagtga ataaaagagt ggacatctca tacttatgaa aatgtggtat 240
cattaccaa ataaaataac actaataaat aaataaataa ataaataaat aaataaataa 300
acaataagt gcacatcata ctggagtttt attttgtgca tctgaaataa gtttgaaatt 360
cataatcaag atctgatttg aaatttaaaa caaaaaaact tacaaaagaa taggaaagga 420
aa 422

<210> 51915

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-C5

<400> 51915

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gcggcgaagc ttcaggagct tgacgagatg aagcgcaagc tgaaggagat ggaggaggag 180
gccgccgccc tccgcgatat gcaggccaag gtcgccaagg agatgcaagg aggtgaccct 240
agtatatcta cagctgaggc gaaggagcag gtggatgccc ggtctgtgta tgttgaaaat 300
gttgattatg cttgcacccc agaagaagtg cagcagcatt tccaagcttg tggaactgtc 360
aacagggtga caatcttgac tgacaagttt gggcagccaa aaggttttgc ttatgttgaa 420
tttctggaa 429

<210> 51916

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-H3

<400> 51916

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acatgttgac tttgggctaa aacttcttgg agcagatgta atggctattc ctggtcttta 120

cagatttggt caggagacca tcaagaaaca agtagcaagc atgtatttgt ggccgaagac 180

actagaagta cctataatgg atccctcaaa agcatcaaaa aggcctgttg gaattctact 240

tgtgaagggt gtgagagccc aaaatctgcg gaagaaggat ctgctgggta aatctgacct 300

atacgtgaaa cttaagatgt cagatgataa acttccatcc aagaagacaa ctgtaaagcg 360

cagcaatctc aatccagagt ggggtgaaga cttcaagttt gttgtgacag atccagaaaa 420

ccaggctctt gaagttaatg 440

<210> 51917

<211> 178

<212> DNA

<213> Zea mays

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<400> 51917

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taaaaaaaca aaacaaaatc aaaaaaaaaag gcaaatttaa aaaaaaacat tctccaaaat 120

accaacctaa ctacacaaac atcctaacc ataactaata tataatgaca ccaaaatt 178

<210> 51918

<211> 439

<212> DNA

<213> Zea mays

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<400> 51918

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agctacaaca agcgtttgcg gcgagcgtct tacaacaacc aattaaccaa ttgcaacaac 120

aatccttggc acatctaacc atacaaacca tcgcaacaca acagcaacaa cagttcctac 180

cagcactgag ccaactagat gtggtgaacc ctgtcgcta cttgcaacag caggtgcttg 240

catccaaccc acttgctctg gcaaacgtag ctgcatacca acaacaacaa caattgcaac 300

agtttctgcc agcgctcagt caactagcca tgggtgaaccc tgccgcctac ctacaacagc 360
aacaactgct ttcatctagc cctctcggtg tgggtaatgc acctacatac ctgcaacaac 420
aattgctgca acagattgt 439

<210> 51919
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-H6

<400> 51919

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cggccagcga ggggcaccgg gcaggtgggc agcagcaggg gacaggctgc aagcagaaat 120
ggacattaaa ggtcttgagg cagataaact ggagtgcagg ctctatgtag ggaacctaga 180
cttcaggatg tcagagtccg atgtaatcaa gatgttttcc ccttttggaa agattacagc 240
cgaggatttt ctgtggcaca cacgcggtcc aaagagagggc gaacccccggg gctatgcctt 300
tgttcagtac accactaaag agcattcagg aagctcagtt agcaaaggag aagatgaatg 360
gaaagttaat ctgcggacgc ccaatggtag ttcaccttgc tagtgagaga agttctctag 420
gctcttcaag ttcacataga gc 442

<210> 51920
<211> 266
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-H7

<400> 51920

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cttaactata tcacaaacac atgatctttt gaaaccaacc aatctcataa cattaacacc 240
atattataaa cttaccacca cactca 266

<210> 51921
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-H8

<400> 51921

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ttgctgacaa ctgctgttct tgggtgaatat atcactggcg ctattctttt cgaacgagac 180
cctttatcaa tcaactacag acggcaagaa gcttggtgac tgcttgaaag atcagaatat 240
catgcctggc atcaatgttg acaagggttt gattccattg cctggatcca acaatgaatc 300
atggtaccaa agtcttgatg gcttggcttc aaggcgtgct gactactata agcaggtggc 360
gcgcttcgca tagcgcatga ctgttgctag catccatcgt ggtgcatctg cattatcagt 420
caatgaatca tcat 434

<210> 51922
<211> 350
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-H9

<400> 51922

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tacagctact cggcggcgcc gaggacgacg ccgccccacc tcctggtgtt cctggccacc 180
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gtggaccagg tgcggttcgc cgtggtgctg tccccgctgc tgctcctgct cgcggtccag 300
tactgggcgg ccacggccgg gtcccggcgg ccccggggcg gcgccttcc 350

<210> 51923
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-A1

<400> 51923

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taagactggt gatcctgcaa agcgccctgc tccaatggcc agtgggtgca gaatagaagg 180
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aagactttcc ccaaggatgc tgcataaatt cataagactt actccctata ttcgtggata 360
ccatgataga ctagctggcc agtcttatac tgtaagcat ggtgaggta acgccaatgt 420
tactattgag cactac 436

<210> 51924

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-A10

<400> 51924

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ttcgattcct tcttcggcac cagcgagatg agggttgtga tgcttggtct ggatgctgcc 180
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ggtggccaag aaaagttgaa gcccttgtgg aagcactact tcaacaatac tgatggcttg 360
atctacgtag ttgattcggt ggatcgggag agaattggaa agccaaagct tgattcaggc 420
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<210> 51925

<211> 385

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-007-Q1-K1-A11

<400> 51925

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gcaggccact gggcgctgcc ccaaccgcc gggccggact gcgctggcc gcgcttaagt 180
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 <211> 417
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-A12

<400> 51926

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<210> 51927
 <211> 421
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-A2

<400> 51927

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cctgggtcgcc gtgctcctcg cgtccctctg ccgcggccag gcggcggtga gggagctcaa 180
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<210> 51928
 <211> 315
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-A3

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 aagtgatcat gtggccatat ctgataatgt ggttctaaaa acatcatcat tgtagctta 180
 aacaatgtac tttaaatgg ttgtaatat aataatatgg ggaagtcgtt ctatgggttaa 240
 aaaaaaaaaa aaaaaaaaaa aaaaacaaaa aaaaaaaaaa aaatttaaaa aaaataaaaa 300
 aaaaaacaaa atatt 315

<210> 51929
 <211> 303
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-A4

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 ctgtgctcca aagtggcgcg gcaagtgggc atattctatg aagaagcata tgcagctctc 180
 agtgcacctc ctctaagtca gcactttgat aagacatggg tgtcccatgt ccagctgaaa 240
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<210> 51930
 <211> 420
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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<400> 51930

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atcatgatgt cgccgacgct gatcatgacg cccggcgaag tcgacgagtt ggtgcgcac 360
tacgnggaag ccctcaaggc cacggangag aggggtggcag ccctgcagtc caagaagaac 420
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<210> 51931
 <211> 401
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-007-Q1-K1-A6

<400> 51931

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ccgcgctcgc ctacatggag gacgagggcc agtgggtcct ggccttctgg atcgccagcg 60
gcgcggcgct gctcggttc ctctcttcg ccgtcgggac catcaggtac aggcacttcc 120
ttcccagcgg caacgctgtt gtcagcgtct gccaggtggt cgtcgtgcc gtcaggaacc 180
ggcgcgtcag agctacggtt cgagcgcagg atatgtacga ccccgatacc gatggagatc 240
gcggcaagaa gggggtcagg aagatggtgc acacaccaga gtacaggtgt ctggacaagg 300
cagcggatgat caaagatcca gcgtctgcgt tccgagcacc ggcaggtcaa ccacagggcc 360
attcctnctn caagcccaac ccatggaggg tctgcacact g 401
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<210> 51932

<211> 269
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-006-Q1-K1-H2

 <400> 51932

 aaaaaaaaaa aaaaaaaaaa aaaaaaatta tacaaaaaca aaacaaaaaa ataaaaaaaa 60
 gcaaattata caaaaaaaaa caaccaca aaaacttta atccaaaaca ctctctcttc 120
 aataaccaa cttacatata cttacctgcc actccatacc catcttttag acctaccaa 180
 atttaattaa atcccacctc attatccaac gtactacact gcaaaatcct tagcattccc 240
 caaattaatc acctttccac aaatcccc 269

<210> 51933
 <211> 397
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-006-Q1-K1-F9

 <400> 51933

 atgatttggg gatactgcac cgtgaatcaa ctgatgacaa ggtcacagtg gaggctgggg 60
 aggctactct caagtacaac gtggctatta agtgtgagac cattactcca gatgaaactc 120
 gggttaagga gttcaatctg aaacacatgt ggaagagccc aaatggcaca attaggaaca 180
 ttataaatgg cactgtgttc agagagccta ttatatgcaa aaacgttcca agacttggtc 240
 caggatggac taagcccatc tgcattggaa ggcattgcctt cggatgatcaa taccgagcta 300
 ccgatgcagt tctgaagggg cctgggaagc tgaaactagt ttttgaggga aaagaagaac 360
 agattgatct ggaggtattc aacttcactg ggtgctg 397

<210> 51934
 <211> 410
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-006-Q1-K1-G11

 <400> 51934

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atgcatccat ttttgttggg ggtcttgacc ccaatgtcac tgaagatatg ttgaaacaag 120
 ttttcacccc ttatggggac gtagtccatg ttaagattcc tgttggcaaa agatgtgggt 180
 ttgttcaata tgctaacaga tcttcggcag aggaggcatt ggtaattctg caaggcacct 240
 tggttggaag gcagaatgtg aggctttcat ggggtcgcag cccttcaaac aaacaagttc 300
 agcctcaaca ggactccaac cagtgggccc gggctaatagc tggatattat ggctacggtc 360
 aaggctatga ggctatggg tacccccagt ctcaggaccc ttatatgtat 410

<210> 51935

<211> 309

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-G12

<400> 51935

cggcgacctc ccgacgcgtg ctcacctcct cttcggatcg tggatccgct gctgcgcggc 60
 gggataatc aattccgagt gaaataaatt acatatagcc atctagaaga gagtcctttc 120
 taggtgagta ggtgtcctct tacgcgtggg tgagagaacc cactaggagc cacagccacc 180
 taacagtctg ttctcctggt gaatcggaag gaccaaagcc gacccaacgg gatcaaaatt 240
 tgaatttgaa cccgaacaac ggaaggagtc cgaggcccag tcatggagga ggagaaccaa 300
 gtgatggag 309

<210> 51936

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-G3

<400> 51936

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 gggcatcgac acccctggcc ccagcgcgcg cagatcgcaa gctctcagca acgcgtgctt 120
 ggtaggaacc cgtgccgacc gactcttcct ctgcgggacg gtctcgagtt tggtcgggag 180
 atgggtgacg ggagctgctg cgtctgcaag gaggcgccgc ccaagtacaa gtgcccttct 240
 tgtcgcacgc cctattgctc tgtcacatgc tttaaaaagc acaaagagga atcttgtcaa 300

aagatattgc atcaggaaga aattagcaag tcagcattgc aggaggaagt tacactgcac 360
accacatgca ctgcagaatc tccaaatata gcgtgcccta caaaagctct tgaagttgag 420
gacctaagct gg 432

<210> 51937
<211> 433
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-006-Q1-K1-G5

<400> 51937

cggacgcgtg ggcgcgtccg cgtgctctct gccccctgcc cccctcccat ctgcgccgcc 60
ctcctcatcc accgcccggg cgcgcgccgc cagcccaagg ccaggcatcc gccagcctct 120
cgcaccacgc gtatcgcgtg cccgcccgc cggctcgtgg cgatggcgta cggggcggac 180
gacgactacg actacctatt caaggtggtg ctcatcgggg actccggcgt cggcaagtcc 240
aacctgctct cgcgcttcac ggcgaacgag ttcagcctcg agtccaagtc caccatcggc 300
gtcgagttcg ccaccgcgag catccacgtc gacgacaagg tcgtcaaggc ccagatctgg 360
gacaccgccg gtcaggaaag gtaccgtgct atcacgagcg cgtactaccg cggagcagta 420
ngggcgctcg tcg 433

<210> 51938
<211> 406
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-006-Q1-K1-G9

<400> 51938

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cactgtcgcc gagcgcgtga ccatcgaaaa acacatgatc gacggccgaa tgggtggaggc 120
caagaaggct gttcccaggg atgaccacag tattgtgagc aagagcaaca caagcagcat 180
agggtcacct gggccggggc gtaccagaaa gatctttggt ggaggtctgc cctcaaagt 240
tacagaggct gacttcaggg ggtattttga gcagttcggg gtcataactg atgtggttgt 300

gatgtatgat cacaacacac agagaccgan gggctttgga ttcacacac atgattcaga 360
 agatgctgtg gacaaagccc tgcacaagag ctntcatgag ctaaatt 406

<210> 51939
 <211> 436
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-006-Q1-K1-H1

<400> 51939

gcgcaaggag caacggacgt tgctgatgag acacgccagc acgtgggtcat ggctgggggtc 60
 gcgaccggga tgctcttcac gaggaagagc ttgcttcag ggacagccct accggaaggt 120
 accaagttct gcggccaagg cttctctgat cccgagaggt ttgaactacg agcggatgag 180
 gatgccatcc cgttcagcta cagccagctc gacaccatcc tgaggatgtt tcggatccct 240
 cgggggtcca agaaggcaga gcaagtcgcc gncacgctcc ggacatgcga ggctgagtc 300
 ncagaggctc atgcctgcgc cacctccgag caggcggcgg ccgacttcgc tgctnctcg 360
 ctgggggtca gggccagcaa gctggtcgag ctgctacca ccgtccatgg ggngaaagac 420
 gccactagat acgtgg 436

<210> 51940
 <211> 394
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-006-Q1-K1-H10

<400> 51940

cggacgcgtg ggcggacgag tgggtctacg tcggtatcct cagcatggca gtccatgggt 60
 ggggaattctg accatgcaga aacttatgaa gaagtttccc caggatttgg agactgccga 120
 cgcaagcctt tctgcttctc agaacactgc agcatcggtc gttccttcca caccgacttc 180
 caggacttca ccatgcaagc ttgaggggag gaagtctgc caaatgatcg cgagcgggat 240
 tctgctgggt ggaagcatcg cttgtctatc tcgaggccga tccaacctcg gggcgcagct 300
 cgcgatggcc ttcttctga aaaaggcctt caagcaagag aggcaatcaa gctcctcatc 360

gacatgaatg gtgnaaacat acgtgactag atgc

394

<210> 51941

<211> 423

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-006-Q1-K1-H11

<400> 51941

cccacgcgtc cgatttgcgc cgccgcagcc cgcagtcgct tgcgcgcagc agcacttggc 60

accgccgccc catcccattg ccgccagtgt ctgctcgatc cgatggctcc cacgaagaag 120

tcgaagaaga gcacagagag catcaacaac aagctgcagc tggatgatgaa gagcggcaag 180

tacaccctgn gctacaagac cgctctcaag acgctgcgca actccaaggg aaagctgatc 240

atcatcgcaa acaactgccc tccacttagg aagtctgaga ttgagtacta cgccatgctg 300

gccaaagtta gtgtgcacca tttccacgga aacaatgttg atcttggcac tgcctgcggc 360

aagtactaca ggggtgtgctg cctcagtatc atcgacccan gtgactcgga catcatcagt 420

acc 423

<210> 51942

<211> 360

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-006-Q1-K1-H12

<400> 51942

agaccattag ctttatctac tccagatcgc ataagaacct gatcgacacc atgaggggggt 60

tgctcgttgc cctcgctctc ctggctctcg ctgcgagcgc cacttcacgc atacaagccg 120

cggtgcggc tgccagccac cgnccgggt tcatctaccg ncgcgggtgc atctgccacc 180

tccggttcac ctgccacctn cgggtgcatct nccaccgccg gtccacctgc cgnccgggt 240

ccacctgcca ccgncggtec atgtgccgnc gncggttcat ctgccgncgn caccatgcca 300

ctaccctact tcaaccgccc ggcctcagcc tcatccccag ccacacccat gcccggtgcca 360

<210> 51943

<211> 421
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-006-Q1-K1-E11

 <400> 51943

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ccgacgcgtc cgcccacgcg tccgcccacg cgtccgtgga aaccacggtg cagctggggtc   60
tggttaccaa ggtggacatc caggctcaaa tagaggacct tggggcagtc aagctccatc   120
tgcataatgga actggaggggt atggtggcag tgctgggtat agtgcttggg acaactcttc   180
tgggtggcggc aatgctctga atagtcaagc ccttgggtgga cctgcaggct atggaagcca   240
gggctatggg tatggtggat atggagggga tccatcatac gctagtcacg gaggatatgg   300
ngcttatgga gcacgtattg atagtgtctg caatcctgct actggtggat catctggata   360
caatgcangc tatggaagtg gtggtgccaa ctctggctat tcaagtgctn ggagtgatcc   420
t                                                                 421
  
```

<210> 51944
 <211> 425
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-006-Q1-K1-E12

 <400> 51944

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ggaaggcgtt taatgtggca gaattctttg ggacactgtg tcttgaaagc agactgtgcc   60
aaatgcaaaa aggaacttgc agtatcattg ttccagagcg tgggtttgat gttgttcaat   120
gacgcacaaa agttaagctt cattgacatc aaagattcca ctggtatcga ggataaagaa   180
ttgagacgaa cattgcaatc tcttgcatgt ggtaaagtgc gggttctcca aaagatacca   240
aaaggagag atgtagaaga taaggatgaa tttgtattca atgaagattt tagtgctcct   300
ctctaccgca taaaggtaaa tgcaattcaa atgaaagaga cggtagaaga aaacacgagc   360
accactgaga gagtgttcca ggatcggcag tatcagggtg acgcggccat agttcgaata   420
atgaa                                                                 425
  
```

<210> 51945
 <211> 352

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-006-Q1-K1-E2

 <400> 51945

 gggagatcgc gcaggacttc aagaccgacc tacgcttcca gagctctgct gtctccnccg 60
 tgcattgagggc ggctgagggc taccttgctg ggctcttcga ggacaccaac ctctgcgcca 120
 tccacgcca a ggcggtcacc atcatgcca aggacatcca gcttgcccgc cgcattccgcg 180
 gggagagggc ctaagcgtca tattttctgt catcagtgcc cgatcagaag atgtagagat 240
 atgctggggt ctgtagtttg gggtactgtc gaatcatcga gtgttggtg ttcactgctg 300
 taacttaatt atcatgatgc atatgaaatg gcaatgaact ctgttatcag tt 352

<210> 51946
 <211> 416
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-006-Q1-K1-E3

 <400> 51946

 cccacgcgtc cggatgatatg gacattgtca tgggttcggc tgtgtgcacc aatgttgggc 60
 gagagctggg gagcgggcct gcccaagatg agcaggtgaa gaagaagcgg ggtaggccaa 120
 ggaagtataa gcctgatggg gcggtgactc tcgggttatt accctcttca tcattaacac 180
 ctactcggc cagcttgggg atgggaacca tgattagtgc tccaggttct ggatttgggt 240
 cggagggatc aggggcttca ggcttgggtg cgccatcaga gaagcgtggc aaggggcggc 300
 cacctggctc tggaaagatg caacagttgg ctctcgttgg aaagtggatt cttggctctg 360
 ttggaactgg ttntactcct catgtgatta ttattcagcc aggagaggac gttgct 416

<210> 51947
 <211> 432
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-006-Q1-K1-E5

<400> 51947

gagtccgcag ccaccgctcc tctcctctcg tcgctttcttc tatctctcgg cgtcgaagct 60

catccggcca gtgaccacgc tctactagcc gcccggaagg agttcttccg ggattcgagc 120

cgttgctgcc ctcacctctg caggcccagc gtcgagcgga gatccaatcg gaaattgaac 180

tgacttcate ttttgctgca tcccagtcag gagaagcaat gtcaggagtg atcacaaagt 240

tcgcggttac atccatggtg atgtggatgg cccctgttgc gatcatgtat gggttttact 300

accaggtgtt tccaggtgtg agtcagatgt catcctcggc gcagacactt gccagtgggt 360

tcctggctgt catatcagtt aatctagtga tcggctntta catattcatg gcgatgaatg 420

agactccaca cc 432

<210> 51948

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-E7

<400> 51948

gtgtctgctt ttctcgctga tctaaatgct gtttcttcag cctcagcttt gtgttccgca 60

ttccaaaatg cttcttcatt catggaacca gtaaattctag aagctttcag ttttcaaggg 120

gcacaaagtg attctgtttt gaacaaaaca acacatccaa atgggaatat ctcagtattt 180

gacagtgtcg ccttggcatc actacatgat agcaaagagt ttatcagtgg taggctcccc 240

tcatttgcta gtgtccagga aacaaacgta gctgctagtg gtttcaagac tcagaagcag 300

gagcaaaatg cagtgtgcaa cgttcctatc cctacgttca ctgcacgtaa tcaaattgca 360

gttgctgcaa tgcccggatc actgatccct caaaagattc cttcatggat caatga 416

<210> 51949

<211> 309

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-F1

<400> 51949

ccaccctctc atccgaaaaa aaaaaaaaaa taaaaaaaaa aattttttaa aaaaaaaaaa 60

aaaaaaaaa aaaccgacaa atttaaaaaa acccaactca acaaaccat acaaacaaca 120
 acatacatat taaaaaataa ccacctacaa acacttcact aaatcccaat tacacacacc 180
 acttactcaa aatcccttac tttaaaaaa cttccattac ctaacaaaaa atccccctaa 240
 caaaaacccc tttaaacaca aaaaacccta cccaacccc ccttaccaac ctttccccac 300
 acccaattt 309

<210> 51950
 <211> 466
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-006-Q1-K1-F12

<400> 51950

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 gtttttaact tggcccttaa taaaattttt ggttgtttaa taatcttaat ccataaacta 120
 agttggtatg tagtgacggg taagaaatac tgtggtggtt tggacctcag ttattggcca 180
 gatgaagggc gaaggccatt atcagatcct cgtccacctt tgggctattg ctgacaagtg 240
 gacgagtgtc gtacacctct ccaattcccc cttcaatgt ggtcagtgtt gaatcatcta 300
 cgtcatcacg tgagcaaggg catactgatg agggaaggga tgacatggat ttttctcggt 360
 cgagcatcag gttttgtgcg ttgattatgg tgtgctcggt ggtgagactg cgacgtntct 420
 gttcaagtca gctgataatc gtgtccttca agagcaacta ctacag 466

<210> 51951
 <211> 435
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-006-Q1-K1-F2

<400> 51951

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 gagaggacca tcaaggactt gggaaaggcc aaggttttga ggaggagcag caagggcgtc 120
 cacaacagga aggagatcat gtcccagtcg gctgcgactc tatctcgggt tccaggacca 180

gtatgcacta aaatggacgc ccaagatgca tccggtctcc gattgacgacg gactggacat 240
 gggttgaaag ataacgagat taaccacccc aactgggtcc accctaaaat tcacccggag 300
 tcaacgggaa tcgtcgaaac aagtcagcgt tcagattctg ttttggtgct gcgacaccgt 360
 ctgttgngtt gttgggtcga gtatcgcgtc ggagcccatt angggagagt ccagngctac 420
 gcacgcncta atact 435

<210> 51952

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-E10

<400> 51952

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 aggattacac tggggcgagag gtcaacgtcg acaatttctt cgctgttctg cttggcaaca 120
 aaactgctct caggggtggg agcggcaagg ttgtggacag tggccccaat gaccatata 180
 ttgttttcta cagtgaccat gggggctctg gcgtccttgg aatgcctacg tatccatata 240
 tctatggtga tgacctcgta gatgtcctga agaagaagca tgctgccggg acctacaaaa 300
 gcctggtctt ttatcttgaa gcatgcgaat ctgggagcat ctttgagggc cttctgccga 360
 atgacataaa tgtgtatgcg accaccgctg caaatgcaga ggagagtagc ttggggacgt 420
 actgccctgg c 431

<210> 51953

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-C5

<400> 51953

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 ggcttcata gcgtgacct acgtcgtcgt gggccgagac gacgagtggc tggcctggtg 120
 tacgatggcg atcggcaccg tcatcatggt ggccactctg ggttcaatgt gctactgcat 180
 tgctcgtcac aggatggagg agaagagcat gaggaggatc aggaggacct ccacgagcca 240

gtcgtggtcc atatcgatcg actccgaaac ggagctgatg aacagcgagt acaagaagat 300
 gtacgccatt taggataggg aacggccatg cttgccatct gagtcttgta tatactggta 360
 cccaaagtcc atggcattgg attgactgag ctatatTTTA gtccgtagac atggcacctg 420
 tatgtaactg 430

<210> 51954
 <211> 430
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-C6

<400> 51954

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 actctcacca atcaagtttt catgtctgat ctcgacattc agatcccaac tgccttcgat 180
 cccttcgctg aggccaatgc tggggactct ggtgcggcag caggggtcaaa ggactacgta 240
 cacgtgcgca tccagcagcg taatggtcgc aagagcctga ccaccgtcca gggattgaag 300
 aaggagtcca gctacagcaa gatcctcaaa gatctcaaga aagagttctg ctgcaatggg 360
 acagtgggtcc aggaccaga acttggacag gtcattcaac tccaggggtga tcagaggaag 420
 aacgtctcga 430

<210> 51955
 <211> 434
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-C7

<400> 51955

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 ggagacgcca cggagtcgga caccgacgag tctcctccgc aggggattag tgctcgccgc 180
 cccggcggcca cactaaccg gatcctgact cgctcgcgcg tgctcgcgaa cccgagcccg 240
 ctggccgcgg ccaccgcggc ccccggggtg tgctcctcc gcttcgcctg ggagtccgcc 300

gcgggatccc tcgtcggcgc cgttgtcgga tacggtaaag gtctggtcac gaggaagggc 360
 tttaaaggat catttctga tgctgcttcg tctgctaaga tatttgctgt ccttgctggc 420
 gtacaaagtt tggt 434

<210> 51956
 <211> 435
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-006-Q1-K1-C8
 <400> 51956

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 cccactctct cctcgagcac actgatgttg ctgtcctgct cgacaatgag gccatctatg 180
 acatctgccg ccgctccctt gacattgagc gcccaacctc caccaacctc aacaggcttg 240
 tctcccaggt catctcatcc ctgacggctt ccctgaggtt cgatgggtgct ctgaacgttg 300
 atgtgaacga gttccagacc aacctggtgc cctaccgag gatccacttc atgctttcgt 360
 cctacgctcc agtcatttct gctgagaagg cctaccacga gcagctgtcc gtggctgaaa 420
 tcaccaacag cgct 435

<210> 51957
 <211> 299
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-006-Q1-K1-C9
 <400> 51957

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 tggattgtta tggtgatcct gaatttatcg gcaagattgg aacggacatt gaagattaca 120
 agtgctcatg gctagttgtg caagcccttg agcgtgctga tgagagccaa aagcgcttc 180
 tatttgaaaa ttatggcaag aaagatccag cctgtgtggc aaaagtgaag aacctctaca 240
 nagaacttga cctagaggcg gtatttcagg agtacgagaa tgagagctac aagaagctg 299

<210> 51958
 <211> 398
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-006-Q1-K1-D1

 <400> 51958

 ttccggctcg agccacgcgt ccggagccga tgaacatggg agcatacagc tacatcaacc 60
 cgcggttgct gacggcgatt agggttcttg gccgggggtg catcgaggac atcaagtacg 120
 tcggcagggc cccgtcggct gctaccgcga cgggcttcta ctcggtgcac gtgcaggagc 180
 agacggagct ggtgcagaag gcgctgcagc gcgacccccct caactaccct ttctgaaaga 240
 aacgaggccc ctgtagattc ttggaattgg ggaccttttg aatttgatat aataccaata 300
 tagagagaac atgccttaaa ttttatctgt gcagccattht ggtgaaataa ttgtttcgac 360
 tctgcagtag cgcatgaaac aaaccgttgt aagtttgg 398

<210> 51959
 <211> 420
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-006-Q1-K1-D11

 <400> 51959

 ccgacgcgtc cgcggaacgc tgggccgtcg ctaagaagcc caaggccgct gccaaagagca 60
 aagctaagac ccccgccaag gcgaagcccc ccacaaagcc caagcccgcg gcgaagccga 120
 aagccgtagt gaagccgaag acaccgcgca agcccaaggc caagccagct gccaaaggca 180
 agcccaagac cgtcggcgct aagccgaagc cacttgctaa gaaagccggc cgccccgcca 240
 aggcggcgaa gacgtcggcc aaggacacgc cagggaagaa ggcgcccgtg gccaaagaagt 300
 ccgctgctgc cgcaagaag gccctgcca agaaggccgc tccctcgaag aaggcggcga 360
 ccccggtgcg gaaagcgccg tncgtaagg ccaagaagta aagcggccaa gaaggggggc 420

<210> 51960
 <211> 285
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-D12

<400> 51960

gcgtcttctc cggcggcgac cagtactatc taccatgggt aaagcgagtc ggcgcgagat 60
gcattacgca gcatgtgtac tgtgcgcgtg caaatccaga atgacgtagc tctgacgtgg 120
gctcgcaata ttgtcgcgag ctctttacaa tcatgatgat aactatgagg aataaataaa 180
acagaaaatc gactgaacac ataggaaaac aaagtgtatc aaaatgctga actcaataat 240
aatgcatcta catgcttatac taaggcacgt ccattttaga gggcc 285

<210> 51961

<211> 313

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-006-Q1-K1-D2

<400> 51961

ccgacgcgtc cgcccaacgcg tccgctcctt cagacctcgc gctccgccga gaagatgtgg 60
aagatcgact cccacctggc gtgcgccgtg gccgggatca tgtccgacgc caacatcctc 120
atcaacaccg cccgcctcca cgcccaacgc tacgcgctct cctaccagga acccatcccc 180
gtcgagcagc tcgtccagtc cctctgcgac accaagcagg gatacaccca gttcggaggc 240
ctncgcccct tcgggggtctc cttcctattc gccgggtggg acaagcacca cggcttccag 300
ctctacatga gcg 313

<210> 51962

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-D3

<400> 51962

taagtaatta aagaatggca ttaacagttt tctataaacc acttaaaaaa ttataataat 60
ccgacaattt caccactttt tagagagcat caaagattct gtcttcccaa ctgagcttat 120
accctttttt gacaaatcta tactgaatgt caatcttgct cctactgatt aagaatttac 180
tgagccattc aagcattcta ctctttttga aaggtaacta ataaacctca tcgaaccttc 240

tgataataat acttccaatg ctacttctta ttctttctgct tccactagta caactgcttc 300
taggactatc acaatgaacc attctttacc atcaaccttc ctacaaatca cgtttctcaa 360

<210> 51963
<211> 294
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-D4

<400> 51963

cagggtatatt ctctctgaca gaagttcctg attccctcgg cagtggcgtg gttgcctagg 60
tttgctgtct gtttttgagc tactcgtttt ttcgctgtct tgtgctcgtc gtcttccgtg 120
gtgtttcagt agcaatggaa aagggtgagt gagcctgtgt tgtgttataa gcatcccgat 180
tcaatgggaa aacaaacaca taagacatga accaactgaa cagcttgatt taatggaaaa 240
tgctaacaca actaacatga caaataaaaa acagatataa caagaacaac agat 294

<210> 51964
<211> 362
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-D5

<400> 51964

ctgctgttca tattttgtca ctcaaaatat tcatctggtc cacactttgt aacagttgac 60
cagtcgtgaa ggacagccga gccaatgttg cgtttgatct caagaatgac gtcattcaag 120
ataagatggt ctcatatgag ttcatcccat taactttaat gggatgactt taccctttct 180
gttggtactaa tgtgcttgta agatgagaaa gtatctagat ctttagtggt tttgggtgatt 240
aatgccaaaca caagattatt gtaactaaca tgtgtgttta caaagataaa ttaatgttag 300
gtcacaaatga tgaaaaaaaa aaaaaaaaaat aaaaataaaa ttaaaaataa taaacataaa 360
aa 362

<210> 51965
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-D9

<400> 51965

ccgacgcgctc cgaacgactt caagcattca ggggagaggt accgctcctg ggacgccggc 60
cgacaggacc gattcgtgag gcgattcgcc gactcgctcg gacacccaaa ggtcagccag 120
gagctcaggt ccatctggat agacctcctc gccaaagtgcg acgcgtcgct ggggatgaag 180
attgccaccc ggctcaacat gaaggcaaac atgtgatgct tctgctgaat agaataataa 240
tgaagacgca tgcattgctg cgccaggaac aagagaaata atacaagacc accacgcatg 300
ggcatactcc atatatatat gtatagcccg tgcccggtgc cgcctttgta ccaatacaag 360
ccaagactag tggatgtatt attattatta ttattgcgct atcacatata tgtaccct 419

<210> 51966

<211> 381

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-006-Q1-K1-C4

<400> 51966

caggctgaa gtattatgac acataccttc ctttcctttt ggaggcatca aacgatnaga 60
gttcatatgt tcggcaggct gctgtctatg gtgtgggtgt atgtgccgag tttggtggtc 120
atgtttttcg cctctagta ggagaggcct tatcaaaatt aaacaatgtt ataaggcatc 180
ctgatgcacg acttctgat aatatcatgg catatgacaa tgctgtttcg gcgcttgga 240
aaatatgcca atttcatcg gatggattg atgcagctca ggttggtcca gcctggctta 300
gctgcttgcc tataaaagac gacaagggtg aagctaaagt tgtacatgga cagctttgct 360
ccatggtgga aaggctggat g 381

<210> 51967

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-B10

<400> 51967

ggcgcgcgaca acagcgtagt gtagtggtgt tccggagagg gttggggaga gtagtaggga 60
 tccgcaatgt cgacggagga ggctggtgtg gctgaagtcc cggtgaccga ggtgccagcg 120
 gaggtcccgg cggcccaggt ggccgagggc cccaaggcga agaaggcgcc caaggagaag 180
 aaggcgcta aggagaagaa gctttccgcg gcgaagaagc cggcggcgca ccctccctac 240
 gctgagatga ttgtagaggc gatcgctgcc ctcaaggaga ggaaggggtc gagctcggtg 300
 gccatcagca agtacgtcga ggggaagcat ggcggaagc tccccaccaa cttccgcaag 360
 cagctcactg tgcagctgaa gaagctcgc 389

<210> 51968

<211> 415

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-006-Q1-K1-B11

<400> 51968

ccgacgcgtc cgcagacaaa tgcacactat cttattaggt atctagctac tgcagttggt 60
 gtcaacaaaa ggagaaggaa tatgcttaaa gagttgatta aggtcattca acaggagcac 120
 catagctaca aggatcccggt aactgaatgt ctggaatgct tatatgttaa ctatgattnt 180
 gatgggtgctc aacaganact catagagtgt gagcagggtta tactgaatga tccattcctg 240
 ggaaagcgca ttgaagaggg aaattttgtc agtggttctt tgagagatga gttccttgaa 300
 aatgctaggc tttntatgtt cgagacatac tgccgtatcc atcgggtgcat cgatatcagc 360
 atgcttgctc agaagttgaa catgagctac gatgaggccg agttgtggat catga 415

<210> 51969

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-B2

<400> 51969

ctgaagggtgc tggctgcaga aaatgagctt catggcttca ataactagct gtatgatctg 60
 cagattcttg gactgttgag ctgtttaacg gcagatatta acagttgcag ccttacaggt 120
 gcttcgtcaa atgttgaggc attgctgctt aataactgtt tgggggatag agtttgggtt 180

atacactgta ggtgaatctt cacgttgata ccacaaacaa tgtgtggaag tttcaaaacc 240
 attaaaaaag aagatgtgct acaatccaat ggcgtcaa at caaacaacaaa gagtctgctc 300
 atgtactaaa tgctagtagg ctgctgatga agcttactat agggaattca aatagggcca 360
 acgaattcta ttcctcatc 379

<210> 51970
 <211> 430
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-006-Q1-K1-B3
 <400> 51970

gtgggaagca ggttgaaata aagaaggctg aaccaaagaa acatggatct gataacatgg 60
 gtaatgggag atcaagccaa ggggtgggag gttaccgcag tacttaccgt ggtgggtggg 120
 gagctggtag tggcagcagc ggcagcgggtg ggggtgggta tgggttttggg gatgcttata 180
 gatctgctgc agcgagttat ggatatgatg gtggcgcacg agcaggatat ggctatggta 240
 gagggatatgg ctatggaggc aatgctggct ttgcgtctgg ttttgggtggg gggatatggg 300
 gatccatgta tggaggcgca tatggtgcat atggggcata cgggtgggtggg gcttatggag 360
 gtggtgccta tggagggtggg gcatatggaa gcagcgcta tgggtggcgcc ccagggtggg 420
 gttatggcac 430

<210> 51971
 <211> 437
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-006-Q1-K1-B4
 <400> 51971

agggcgtgca atcacacaac cctcctgggc aatgtcgccg acctcaactc gtcgccgtag 60
 cgggttgtag ctgggatgtg gggcagcaac aagaaaccga acctcgactt caccctagga 120
 cggatataat ccgcactgtc tatctacacc tcgaccatca gctgagccaa ccgagatcga 180
 tcgatcggcc ggccatggat acgaagctag atacaggcta gagctagctg cactgcatac 240
 ataggttgat ctgcttctaa gctgcatgtt ttatgatctg atggagcatg tgcgtgcggg 300

atgcatgcat ggtcgtagcg agggaacaat gaagaagaac caaaacgctt gaagaaatga 360
 aaaaagaagg cgcgctagga gtaaagaata ggagatatgg caaccgtgga tgggatccag 420
 gaacaaatta aagctag 437

<210> 51972
 <211> 420
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-006-Q1-K1-B5
 <400> 51972

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 tgctcggcgt ggcggacctg ataaagctgc tcccagagcg caccgtgttc ctgttccagt 120
 tcctgagccc gctggcgagc aacaacgggc actgcgccac gctgaacaag gcgctgagcg 180
 gggcgctggg ggcgctgtgc ggcgcctcct gcgccttctc ctgcttcacc gacagctacg 240
 tgggcgcgga cgggcgcgtg tactacggcg tggtagcgcg gcggggcctg cgcaccttca 300
 cgcccgaccc ggacgccgnc gtccgggacc tgtcggcgta ccgtctccgc gccggcgact 360
 tcgcgcacgc cgcgctctcg ctgctcgtct tcgccaccct cgcgctcctc gacgccgaca 420

<210> 51973
 <211> 420
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-006-Q1-K1-B7
 <400> 51973

ggagctagaa attactgcat tgcacattaa tctccatgct actgatggaa acaagagcaa 60
 aacctatggc cctggcgctc attctgatct tagagctctc gctcaatctg gcattaaaat 120
 aggacgtatt gacgatgtta ctccagtcgc aacagacaac acacgcataa gcgatataga 180
 acagaaagat cttaatttca gtactgactt actgccctgt acagaagtag cagttacaag 240
 tctctatgga tatcatatac tgaattatta tgcttattat cgattgaact attgactgaa 300
 ctcatgaatg attactaata ctcatcttg acatggaata caacataact gtacaattac 360

tagaaaagac cctggaacaa cagctgcgcc aactcctgac aacaatgggt gtgccaaaac 420

<210> 51974

<211> 415

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-006-Q1-K1-B8

<400> 51974

ctggtagaca agaatggtca tatgaaattg tcagattttg gatttgttaa gccaatgatt 60

gttcgaagtt gtcaacgctg aatgaaaatg aaccaatgac tgatgaaaac cttaggaggat 120

ctatggacat cgatcattct ctctctgata ctgcaaattg taggaggtgg agaagtccaa 180

atgaacagct tcagcattgg cagaacaaca ggagaaaatt ggcattttca acagtcggga 240

cacctgatta tattgctcca gaggttctac taaagaaagg atatggacta gagtgtgact 300

ggtggtctct tggtgcaatc atgtatgaaa tgctngttgg ttateccacca ttttattcag 360

atgatccact agttacatgc caaaagattg tgcattggag aagctatttg aattt 415

<210> 51975

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-B9

<400> 51975

ctgccacaag cacctgctat agttgtgtgg tgcaaacacc aaaatggtgc ctgccaagggt 60

gtgatttggt ttcttgatag tgtactgcgc agtaacattt tcgctaggtc agatagctgt 120

tggcgaggca tgcacagtgg atcagaggga caagatcaca acggactgca gagagttcat 180

caagctgaaa ggccccgtca cagccccgtc gtacaccgac gactgctgcg tcgccataag 240

agcggtgccc aatctcgaca tggagtgcac cattcgctg ctctccaata aacagaagaa 300

gaagtacgac gtggacaaga tccggcggct cggcagcgtc ctctgcaatc cacatccggt 360

gatgacgtaa aatgggggtgt ggcagtagtt tctgatggag tgcacgc 408

<210> 51976

<211> 381

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-006-Q1-K1-C1

 <400> 51976

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 cctccttttta caccgggtgc gggctcgctt cgttctctgc gtcccaccgc aaccgctcct 120
 tcggccgcgc gcgggcgtcg ccgtcccgcg cctcgccctc cgcgcactta cgtcgtctgt 180
 cgtggagcgt gtcccgccacc tggtcggcgg cgcgccagct gcaggccatc ggagccggcc 240
 tggccgcgcc gcgcgccacc gaggcctcct gcggcttctc cgcgcccgcc tacgccatgg 300
 gctgcctgct ccacctcgcc gcctgggcgc tcgtttgccc cgtgccgtgc ccggactcgc 360
 gccgcgcgct gcaagcgcac c 381

<210> 51977
 <211> 422
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-006-Q1-K1-C10

 <400> 51977

 ctgcatcagg gataaaggat tcaattccag cctggatcaa gtactcagtg caggcccgag 60
 gagaaatacc atatgatggg atttattatg atcctcctga agaggtaaag tatgtgttca 120
 ggcattgcgc acctaaacga ccaaaatcat tgcggatata tgaaacacat gtcggaatga 180
 gtagcccgga accgaagata aacacatatg taaactttag ggatgaagtc ctcccaagaa 240
 taaaaaaaact tggatacaat gcagtgcaaa taatggcaat ccaagagcac tcatattatg 300
 gaagctttgg ataccatgta actaattttt ttgcgccaag tagtcgtttt ggtaccccag 360
 aagaattgaa gtctttgatt gatagagcac atgagcttgg tttgctagtt ctcattggatg 420
 tg 422

<210> 51978
 <211> 417
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-006-Q1-K1-C11

<400> 51978

gtgtaggaaa aacaatgatc atcaaagaag ttcgtcaaat catgctggtg tttctacggt 60
agatgaacta gaagattggg ccatgggtaa gcctcagagt gtgcatgctt taaatgcgga 120
agaatttgag agaagtacag cagcagcagc atctgcagct gctatgaaag aggccatgga 180
taaagcagag gcaaagttca aacatgcaaa ggaggtacga gagagagagc gtgatgcgaa 240
gattaaaaat agagaacaac gggaacaaga tagtgtaaca aggtcgtatc cccagaatcg 300
tgaggacaaa gagagaaagg aaggactaga acaggaaaga gagatgaagc aaaatgagga 360
aagggaaga gagcaaggaa gacttgaaga ggaaagagaa cttgagcgac ttagaaa 417

<210> 51979

<211> 118

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-C12

<400> 51979

atgtattatg caaaacattg tccacacatg ttataggctg aaatcggaac tattcgtgat 60
agtttttagac taaagaaggg cgactagcta caagtgcaga atcaactacc aaaactgc 118

<210> 51980

<211> 344

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-A9

<400> 51980

caggatcact ggaaactatg gtgaacatcc tgatgacaaa tatgacagca ctgctggggc 60
tgtgataagc gatattacag tcaacgatgt tgttggcgtt aacattgggg ttgctggtat 120
attggaaggc attcagggcg acaatttcag caacatttgt ctagtgcaat gtttccgtca 180
gtgtgcaatc tgcacatcca tggaattggt cacttattga acggtattcc aactcggatga 240
tcccagaatc atgcgaacag ctccagaagca attgtagaca gacatccatt tgctacgatg 300
gaagcaattc ttcactgatg agcgtgcagt aaccaagaca taca 344

<210> 51981
 <211> 424
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-H3

<400> 51981

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ggccacttta gagcacaggg agtgcctctg aaaagaaagc taagggaatt tcctgtcagt   60
gaggatgcgc ttcttcctgt tggcacaagc atcacagttc gtcactttgt tcctggacaa  120
tttgttgatg tctactggaat cacgaagggg aaagggtttg caggtgtaat gaaaagatat  180
ggttttgggtg ggatgcctgc atcacatgga acatctttgg cgcacgcagc tgggtggtct  240
actggtcaaa gagatgctcc tggaagggtt ttcaaaaaca gaaaaatgcc tggacgcatg  300
ggtggtgtgc aacgcacagt gaagaatgta tgggtctatc aaatagaccc aaccaggaac  360
ttactgtatc tgaaaggcca gggttcctggc cctcaaggta agcttatatt cgtaaggat   420
tcta                                     424
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<210> 51982
 <211> 377
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-H4

<400> 51982

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ctgcattttg gatattgaat cagttgtttc tggaacgttt tgcagatcac cagcaagagg   60
gaaatctcct aatgtttctc cagcaaattg tgaagcagca agccccaaga agcagagccc  120
aaacaggagc ccatctggct cacgctctcc tgatgcgaag cctgaataaa attgctatgc  180
tgttaaagga ttgcagatgg agtcaggagc tcttcttttc ttaacatttg tcctctgttc  240
tagtaccatc agtgtcttat cgcagtacga gattggatga tattaactat ctgtatcagc  300
ttgtatcgat ggactccaag tggtgtcact cttgggtgtct agtgtgctga aagacccatt  360
tacttttgct aaacttt                                     377
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<210> 51983
 <211> 418
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-H5

<400> 51983

ggggcggtcc ctttttgcaa accaacacat acgccgaatc gagtcaatcg gcattcgggc 60
gtccccagtc caccggaaat aattgccttg atcagcaacg atggcgggag atccggccgc 120
cggggtcggc ggcaacgccc accccgcgtc ggggagcaag agctcccgtc cgtcgacgcg 180
gcaccgtcag ttccgcgacc gagccaaggt ccgagtcgac gacctacaag agatgttctg 240
cggcctccaa tccgctcgca aggagagccg ctccgccgac gccgctgtcc tcgaggagca 300
ggtccaccag atgtcccgcg agtggcggtg cgagctcagc gtcccatccc cggttcctc 360
tctccagaac tcgcagggga acaaccggga ggcttcggat ccaccgtcgg atacgctg 418

<210> 51984

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-H6

<400> 51984

ggagagaagg aatccgatcc atccaagcca agccaaggca gagaagaaga agaggaggag 60
gaagaagcat cggcagcatg tcggagggga ctgccaactg cgtggacatc ctgatcgcca 120
tcatectgcc tccgctgggg gtgttctca agtacgggtg cggccaacgag ttctggatct 180
gcctctctct caccttcctc ggctacatcc ccggcatcat ctacgccatc tacgccatca 240
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gttcatatgc ctgatgccga cttgtgctgg atgtagttgc ttgaattcag tcgtgttctc 360
gttttgctac cgtaccacc ccattgcatca tctgtcaccg cgacgcaata atcatagtaa 420
taacaagttc agatt 435

<210> 51985

<211> 191

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-H7

<400> 51985

ctagtcaaga gaagagtcga ggaacaacct tgcattcgca gacggcgatc atggaggcgt 60
gagctactgc ggctgcttgt ctctcgaggt tctcctcgaa aggttagctt caacctgacc 120
gccagttggt ccgtagggcg tacaaggacg ctgagtgcgc atctactcac caagcctctg 180
ccgtggtgcg c 191

<210> 51986

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-H8

<400> 51986

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gtaggtctag tttctttcgc ttttgtaagg gctttagaga ctgaggttta cttgaagata 120
caatacacat gtgtgttgag gaacaagtgg ccatgttttt gaacacagtg ggacagaacc 180
ttaggaatag gttggtggga acaaattatg gtagatctgg tgagactggt agtcgctact 240
tcaacaaagt gtttcgtgct attggagagc tacgagctga acttattagg ccaccatcat 300
tagagactcc atccaaaata gcatgaaatc caagatggga tccctacttt aagggtgtgat 360
attcagctat tcaatattct ctttcaagaa ttttactat ttaaaccat aagaccctta 420
attgtatttt ggcttgatt ggataaacat aggattgc 458

<210> 51987

<211> 437

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-005-Q1-K1-H9

<400> 51987

gggatgcaac acaaccagaa gatcaccttt cctggtgaag ctgatgaagc gcctgatact 60
gtcactggag acattgtatt cgtcctccag cagaaggatc actccaaatt caaaagaaag 120
ggtgaagatc tcttctatga gcacaccttg tctctgaccg aagcactatg tgggttccaa 180
tttgttctta cacatctgga caacaggcag cttctcatca aatcagaccc tgggtgaagtt 240

gttaaacctg accaattcaa ggcgattaat gatgagggga tgccaattta ccagaggcct 300
 ttcatgaacg ggaagctgta catccatttc acggtggagt tccctgactc gttggcacca 360
 gagcagtgca aggctctcga gacagtactt ncaccaaagc cttcatccaa gctgacagac 420
 atggagatag atgaatg 437

<210> 51988
 <211> 226
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-006-Q1-K1-A1

<400> 51988
 ctgcgccggc gctttccccc cgaccgaaa cggagtccgg atgcagttgc ttcgggccat 60
 ccggccgtca catcagccac acgccgncgc gccagtcgcc gcacgagggg gcccgatgatg 120
 ccgaagaaga tgggcgtgaa ctccaaggcg gaggcggtcc gcgaccgccg ctccgccgcg 180
 gaggccgacc gccgcgaccg ccaggagcgc gccaaaggagg agcagt 226

<210> 51989
 <211> 262
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-A11

<400> 51989
 gtactcggtc cggattcccc ctcgagcctg cagaaagggtg gttgttattg tgggtgatga 60
 tctgatggt ctacttattg atgcaaagtc tggaaagaca gttcattcca taaaaggaca 120
 tcgggactac tcatttgcac cggcttgaac ccctgatggg caaacatttg ctaccggcaa 180
 ccaagacagg acatgccgaa tctgggacgt aaggaacctt tcaaaatccg tccatgtgtt 240
 aaggggtaac cttggagcca tc 262

<210> 51990
 <211> 233
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-A12

<400> 51990

gtaagccatg gttcatttaa gctgctgctg tccttgggtt tctgcgtcgt ctggtgcgct 60

ctggtgtccc tctttatgga tgctgctgctc tattaaccat ctgtgggttg tgtgtcatga 120

atcgtgggtg tggcttcggt ggtttaatgg acctgttggt tcctctgtgt tgtacccaaa 180

actcttctgc agcagtatgg cttgaatcct tatgaagttt gatatttgaa ctt 233

<210> 51991

<211> 61

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-A4

<400> 51991

ttttaaaaca tacaaaaata cacaaaaaaa agcataattt aaaaaaaacc taggccccaa 60

a 61

<210> 51992

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-A5

<400> 51992

ctgatctgcg tacacggtct ccctcttcct gtcagtagta gagtgcgagt gaggcgagcg 60

agtatgagac aaggggaaat ggggaaggga ggcgaaggga gcgatgcggc ggcggcgggc 120

ggcgaggtgg aggagaacat ggcggcgtgg ctggttgcca agaaccacct caagatcatg 180

cccttcaagc tcccgcccggt cgcccttat gatgtccgctg tgcgcatgaa ggcagtgggg 240

atttgcgga gcgatgtgca ctacctcagg gagatgcgca tcgcgcactt cgtggtgaag 300

gagccgatgg tgatcgggca cgagtgcgctg ggcgtggctg aggaggtggg cgccggcgctg 360

atgcacctgt ccgtgggcga ccgcgtggcg 390

<210> 51993

<211> 432

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-005-Q1-K1-H11

<400> 51993

cccacgcgtc cgggttggtg tggataaaag gactggatct gctggtggaa ctggcgggca 60
agtaggtggt cgagacattg aacttttctc ctattgtgag tcatgcttgc ttccattcag 120
catacagtgc catgtcgggt atgttccttc aggtggaaga gtggttggtg taagcaagct 180
ttctagagta tctgatgtct ttgccaagag attgcaaaac cctcaaagac tagctaata 240
aatctgtggt gcactgcatg ctagcattca acctgctggt gtggctggtg ctctgcagtg 300
ctggcacatt cctttaccag aaaacttggg atgcaagact ntggaagggt ggattagaac 360
ttcacattca tctcgtctcg gagtctttga aggtgaaaag cagcactctc tggagtgact 420
tcttggtctc tg 432

<210> 51994
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-A6

<400> 51994

tgatctgata ttaacgggac accaggaaaa tgcagaattt gcgcttgcca tgtgtccgctc 60
agaaccatat gtctgtcag gaggaagga caaatttggt gtcttggtga gcatccaaga 120
ccacatatct gcccttgggg attcctcgtc ttctcccgga gcatctggca gcaagcagtc 180
tggcaaaatt gcaaatgaaa aggagagtcc taaagttgat cctagaggta tattccatgg 240
ccatgacagt actgttgaag atgttcagtt ctgcccttcc agtgcgagag agttttgtag 300
tgtgggtgat gatgcttgct ttattctgtg ggatgctcga actggcactg acccagctgt 360
taagggtgag aaagctcaca gtggagatgt tcattgtgtt gattggaatc cccttgatgt 420
taactatatt t 431

<210> 51995
<211> 435
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-006-Q1-K1-A8

<400> 51995

ccgacgcgtc cgcgaagggg catggctctg gtcagattgg cgtttcccggt gttcgtgttc 60
ctcgcagcgg cggagttcgc ggcggggacg cggtcgccgt cggctttcgt acaaaacgcc 120
atctactcca accgcatac catcttctcc aagacttact gccctactc catgcgtgct 180
aagcacatat ttcgagacct taaggaagat ccatatgttg ttgaactaga tacccgagtg 240
gatgggcgtg acattcaaag tggttctctg gacctagttg ggcgtcgtac tgtgccacag 300
gtgtttgtca atggacagca tattggtggc tcagacgata cagtaaatgc gctttcaaat 360
ggacagctcc agaaacttct cgggaagagt cagtcacaat gatgggtcgc tggacaagct 420
ngcactgtca agaac 435

<210> 51996
<211> 237
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-005-Q1-K1-F6

<400> 51996

tcgccttctc tcgcgagaac cgagaggcta gtaccgcata cagtggntgg ggcttcggta 60
tggggcggaa gcgaatggcg ccctgggcga acgccgtat aggcgtagga aaccctaaa 120
ttacgacggt cgatgactgt tgaagatgtn gccgacgccg acttcggata ccggaggaaa 180
gcccgaagca gctgaaggtc ttccgctgca actggaagga tcccgccgga aggtgtt 237

<210> 51997
<211> 234
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-F7

<400> 51997

gaatacccgga cccgaccac tcatacgact ggataaccat atctacaata tttcctttaa 60
cactgtatcc tttaatccaa gggcgagatc taatacacac aaggcatcgc ctacttaac 120

atagataaat tcacttaatg catctaatac ttaaaacttg aatgtttatc atgaattact 180
 caataaacta ttaaatgaaa aaaatatcta ttaaatttac aaataacact tata 234

<210> 51998
 <211> 400
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-005-Q1-K1-F8
 <400> 51998

cccacgcgtc cgcctcaagg agacatcctt actaatccac aataccactg gaaggagtgc 60
 aggttcacat tcaaggaacc tgccaaggat gctgaggact tctgccgcat gctgggttggg 120
 ttagaggaag agggtttgca gaccgtgaag agctgtagcg gttacggttg acaaccact 180
 tgcaagggtc acattcaagg aaccagccaa ggatgctgag gactctgcgc catgctgggt 240
 cgattagagg gatattgcag cgcgtgaaga gctatagcgg tctaggtgac agctcacttg 300
 ccacaaaacc agtgagaaac tatatatccg ttattttgga actttgaaat atgggttttag 360
 attgctatgt tttattcgaa gatctatggc ttctcgaatt 400

<210> 51999
 <211> 442
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-005-Q1-K1-F9
 <400> 51999

gaacattttg atagtgttag cgaggacgat caacaatctg atggtaacat atctgacact 60
 ctagcggaat ctgacagtga tgatgtcatg cataattcaa agcgtataag gttatacgag 120
 gtcaaggatg aacaccatgc ggaagcattt ttgaacagcg tctctttatc aaacgaggat 180
 gctgttcccc ttgaggatag gatagctgcc ctggaaagga aacagaactc caaagcactt 240
 gatgcggtca agtacgggcc tgggtggtca cgagagattt cgtttttctc taaaagccgt 300
 agaaggcaca aggaagagtc gtctagcgac gatgaacca aggggtgtcaa aaagagagct 360
 gtgcagccgc tgggcttgaa gcagggaaaa gccgagttct aatatgttgg cggaaatcgt 420
 ggcaaaagta gaaggcgtgg tg 442

<210> 52000
 <211> 329
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-005-Q1-K1-G1

 <400> 52000

 gcttcagttg ctaagacaat gaaaaatatt gcttcaaacc ctgatgcctt caatcaatgg 60
 ttgaggtgga agtatgatgg tccatccgat tctttcaaag ctcttattga catggcagcg 120
 gttcattcat cttgtcgtct ttgtatacat attgctacca agatccattt aaaggaggaa 180
 aggactccaa aatttacaaa tcgtccttgt agctgttcca ccaaaaaggg aacaatttac 240
 cacttattta tccgagagag agggcggttt aagtcagaga gcatttacat gagatcaggc 300
 cagttaactc tgggagcctt ggaatccgc 329

<210> 52001
 <211> 281
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-005-Q1-K1-G11

 <400> 52001

 aattcccggt cgaccacgcg tacgcgatgc ttttcacgac gaagagcttg ctttcagggg 60
 cagccctacc ggaaggcacc aggttcaggg gccactgctt tcctgatccg cataggttcg 120
 cgctacgggc atacgcagac tccatccctt tcagatacag ccagcttgac gcgatcctaa 180
 ggataaaacc gatccctcta gggccaaga aggcggagca agtctctgac aactacggg 240
 catgcgaggc cgagttctcg gacgcttatg cctgcgccat c 281

<210> 52002
 <211> 416
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-005-Q1-K1-G12

 <400> 52002

 attgaatgag attacatcac tgtttttttc ttagcgatat gttgagctca tgtgctcgtt 60

tatgttagtc gatctctggc tctttagtagta acttggaaaag cttgctgnct ttttttaagg 120
gcatacatgc ctgtgatgtg tggatcatgat catttttttc tctgtttatt ttagttgtcg 180
tatcataaat gccatgtttg cattgggtgtt ccaacatgtc aatattattg aataaatgtt 240
tgcattggcg gcagcgggga cgacgctaag tcgagcaatg gogaagcggc ccgtgggtggc 300
agtaacggtg gagagaagca gggggatgaa tccaacggtg gcgggatact tagcgctgtg 360
gcttcagga ttggcgtggt cgtgtccagc gccaacgggg accgcagcgg cagcgc 416

<210> 52003

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-G2

<400> 52003

cttccccgtc gcgattcgca ttgcccttcc ctcggttctt acccccagcc tcgcgcggc 60
gccgcggcgc ccgcccttgc cagagagatc acccccatt cccacaatcc cgtccctccc 120
tccgtccctc gaggagccga gccctccgcg cggccgtggg atggggcagt gaccggtgag 180
tggcgtgggg agccggtggg cgggtggcgag ggcatatcat ggtgcagtgc ctggacgggg 240
tgaggcagct gctcgcggtc ctgctcaatt gctgcgacgt cgagctcaag cagccgcggg 300
ggctccaaga cccccaggtc ctgcgcaggg agaccgtctt cagcgtgagt gaggtcgagg 360
cgctgtacga gcttggttaag aggatcagca acgccgtcat tgatgatggg ctgattaaca 420
aggaggaatt tcagttg 437

<210> 52004

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-G3

<400> 52004

gacgagtcgt ccgtcccagg ctcccagccc cggcgccccg tctcaaatca aaaaaattgg 60
gctcaaatct caaaccata aaaaatactg tattttccaa ccaagccact cgcccgacct 120
tcacccgcat tccacgcgca ctccgtgcc tcaactccgag actccgccgc tgcttccaac 180

ttccgttgcg cactgagcgaa acatccggag ctagcaaggg aggaggagga ggaggcgatg 240
 gcggggggcg gggataaggt ggactacgtc ttcaagggtg tgctcatcgg cgactccgct 300
 gtcgggaagt cgcagatcct tgcgcgttc gcccgcaacg agtttagcct cgactcgaag 360
 gccaccattg gggtcgagtt ccagactcgg acgctcgtca tcgaacacaa gtccgtc 417

<210> 52005

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-G4

<400> 52005

ctcatctgcg tacacggtct ccctcttctt gtcagtagta gaggtagagt gaggcagggg 60
 gtaggagaca aggggaaatg gggaaggagg cgcaaggagg cgatgcggcg gcggcggggcg 120
 gcgaggtgga ggagaacatg gcggcggtggc tgggttgcaa gaacaccctc aagatcatgc 180
 ccttcaagct cccgaccgtc ggcccttatg atgtccgctg gcgcatgaag gcagtgggga 240
 tttgcggcag cgatgtgcac tacctcacgg agatgcgcat cgcgcacttc gtgggtgaatg 300
 agccgatggt gatcgggcac gagtgctcag gcgtgggtcga agaagtgggc tccggcgtga 360
 tgcacctgtc cgtgggacac cgcgtggagc tggagccggg cg 402

<210> 52006

<211> 346

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-G5

<400> 52006

cccacgcgtc cgaaaaaaaa aaaataaatt taaaaaaaaa aaaaaaaaaa aaaaaagaaa 60
 agaaaaaaaa aaaaaaaaaa aaaaaaaggg gggccgccct tttggatcca cccttctttc 120
 ctctctcttc ctccgactta attcttcttt tatgggtgcca cattactttt atttgotggc 180
 cgtttttcaa catcgtcact gctgaaaccc tctgtgtgcc cccctaatta accttgttgc 240
 acatcatcct tttttcacct ggtgtcgtat taacaaagcc ccccccaatg atctttctta 300
 ccaacagttc cgcactcttg gtgactattg cgccccctct ttttgc 346

<210> 52007
 <211> 293
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-005-Q1-K1-G7

 <400> 52007

 aaaaaacaaa aaaaaactaa aaaaataaat ttaaaaaaaaa aaataaaaaa aaaaggggag 60
 gattataaaa cggcggccgc tttctagatt ccaacattta cttccacttg catgccattt 120
 attagctttt ctctcgact cccttaattc actccactac tccaccgttt ataacatctt 180
 cccttgcaaa ccctctgtgt atcccaactt attcacttat caggatattc cttttttgcc 240
 agctggcgta aatacgatga gtcacctacc aaacgtcctt ctcacagtt act 293

<210> 52008
 <211> 439
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-005-Q1-K1-G8

 <400> 52008

 ggactggggc gccatccgc ggctcctctc ctccgctgc ctcttctct gctccggagg 60
 ctgttttggg tgctgcgata agactgtaaa gcaactgggt gaactgtcca gaaacttgat 120
 caccaggac caaattacca ttggagagcc attttggagc acaaccacca tcgaggttga 180
 accagcagat ctacgtggtg ttacttcagt caatacatct aacttggcct ctggaactgg 240
 tagcagtcac aaccttctg gacttggtta taatggactt gttctgtggg aacatacaag 300
 gcaggagtgg actgaaacta gaagtctgcg gctgaagggt aagcatgttc gtgaaccagt 360
 attgagttgg aatgcagcat atgagagtct gcttggatca aataagccat tttctcaacc 420
 cattcctctt catgagatg 439

<210> 52009
 <211> 456
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations

<223> Clone ID: LIB3079-005-Q1-K1-G9

<400> 52009

ggcttaggtc ggaaagctaa tcaggtctat atcattgatt atgggcttgc taagaaatac 60
aaggagcttc agactcataa acacatccca tacagggaga acaaaaatct gactggaaca 120
gcacgttatg ctagtgtgaa tactcatctt ggaatagaac aaagcaggag agatgatctg 180
gagtctgttg gctatcttct gctatatttt ttaagaggaa gcctcccatg gcagggcctt 240
aaagctggca ctaagaaaca aaagtatgat aaaattagtg aaaagaaaat gcttacctcg 300
gcagagattc tgtgcaaata ttaccgcgcg gagttcgtct catatttcca ctattgtcgc 360
tccctgcgat ttgaagacag gccagattac tcttcaatga agaagctctn tcgtgatgta 420
tntatacggg aaggataccc aattgattac gtattt 456

<210> 52010

<211> 455

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-005-Q1-K1-H10

<400> 52010

gtcgcgcgcc gctgcgttga gccaaggcgc aatggcaacc tccacctcag ttcccgtcct 60
cctgggcctc gccgcgcgcg ccggcctcct cctgctcccc ggctcgtcgg cgtggcagag 120
cagcaactgt gcaccgggcg cgcccggcag tggctcgcgc acgtggcctt caccggctc 180
cggctccggc ggcgggccaca gcaagccgcc caagcaccac catggcaagc cgccaagtg 240
cccgcctgct aaccctccgt acgtgcctcc gacgcctcgg ccgtcaccgc cgtacgtgcc 300
accgtatgct ccgcgcagcg ctcgccgctc accgccctac gtgccaccat acgtccccgt 360
cccgcgcagc cctcggcctt caccgncgta cgtgccacca tacgtccccg tcccccgac 420
gcctcggccc tcaccgncct acgtgccacc atacg 455

<210> 52011

<211> 438

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-005-Q1-K1-F5

<400> 52011

gataattcca ataatgcaaa agaggcccca tttcggtttt gtaagtttcc tggagtctga 60
gtccgtaaaa cagatcttat cagaaagggg ccctcatttc atctgtggaa atgaagttca 120
tgtcaaagca tacagggaaa agcatgaatt ggagtacatg atgttaactg agaaagatat 180
ccattgtaac tgcggtgtac gcgatgtgtc agatgtgggc gatttgcaat tttgccacca 240
ttggcagtggt acttcgctaa tttgctatcg gacacacaaa tcatagacac ataccggacc 300
cacaaatcat agacacttgg ggggtggcgac attgcaaata tttcgtcaga tgtagatgca 360
gttggtgagc atcatacagt gactattggt gactntgggc ttcagacgac cttggaattt 420
gactactgag actctgag 438

<210> 52012

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-D9

<400> 52012

cagcgacca acaggtgagc ttccgcgggc ttatcatgga gaccaaggac acgtgtctgc 60
gccttacgtc gtcctgtggg ctccagccga gtcccagacc gcaggaagtc agcaaccgac 120
acgcactcag gcacaggtat cttacagctc gtatgcttac ccaccgccgc catgggcgtc 180
acaggacagc accgaatcga acccttttgt agcggcagca tcgtcatctc agcaatacca 240
gtccacttcg agaacccta ccatgccacc gaacttgagg cctctactac agcagtcgca 300
ttcttttgga gtaccacttc caaccgcgag tctggactcg ccaataaatg ggaacctgaa 360
gcaaccgctg tctgtgtggg ctgcgatgcc atcttatgtt tcttccaaca agttcttcga 420
cgacttgttt gagaggaact cggat 445

<210> 52013

<211> 349

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-E1

<400> 52013

aaaaaacaac caaacacaaa aaaaaaaaaat ttaatacaac aaaaaaaaaac aaaaaaaaaa 60
gaaagaataa aaaaaaaaaa aaatacaaac aaactaaaac acaatccaaa atacataact 120
catcaaaacc tacaccctcc tcttcatatt tccctttctac atccccacaa ttaatccatt 180
tacctttctt atatcaatcc ttttaattcc aaaaaccctt cctatcccca actttcttcta 240
ctttgacaaa atcccccttt ctccaatttt cttattaccc aatatctccc cccttatccc 300
cctttccaaa attttttcat cctcattgct tttttctatc ccccccttt 349

<210> 52014

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-E10

<400> 52014

cccacgcgtc eggctgcaca acaacgaggg gaactaccta gcccacacgc aagggaagag 60
gcacgagacc aacctcgcca agcgcgccgc ccgagaggcc aaggatgcgc ccgcgcagcc 120
ccagcccaac aagcgcaagc ttgccccccg caagtctgtt aagattggca gaccgggta 180
taaagtaacc aaacaatatg atcctgagac gaagcaacac tcgtttctct ttgagattgg 240
ttaccctgaa attgaagata attgcaagcc aaggcaccgc ttcatgtcat catatgaaca 300
gaaagtccaa agttgggata agaggtatca atacctactt tttgctgcag acccctatga 360
aatcattgca ttcaagatac caagtacaga gattgacaaa tcagcgagca aattcttctc 420
ttactgggat cctgacaaga aggaatacct gc 452

<210> 52015

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-E11

<400> 52015

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gtctgcatcc tacgcgaggg cgaaaccac aaaccctctc cctcccgtac tccggcctac 120

acatccaggg gcgatgacgc tgggtagctc cggcgcgga tcgagcgtcg tcgttccccg 180
aaacttcagg ctattagagg agctcgagcg tggagagaag ggcattgggtg atggaacagt 240
gagctatgga atggatgatg ccgatgacat ctacatgcgg acatggactg gtaccatcat 300
gggccctcac aataactgtac atgagggtcg ca 332

<210> 52016
<211> 349
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-E2

<400> 52016

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gcgagatcg gtccactcca tccacgcggc gtcaggcgag cggggcgcac ggacgctgcg 180
accgatggat ctcaaggata gcctctccaa atttaagcaa cagcaggaga gatgccagtc 240
atcactggcg agcatagctg cttcgacctc aaagccaaag cacagggccc aaccagcgca 300
tgctcctaac gtcccagcaa gaccatcaca acctattaag ttttcaaatt 349

<210> 52017
<211> 386
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-E3

<400> 52017

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tctccggcct cctcttcggc ttcggctgcg gcgccctcac cgcggcgctc atgtacctcg 180
tgtggtcgct cctcgctccc acctgcgcct ctggatacga cgacgacgtc tacagcgacg 240
acgaggaccg gctgtccgac tccgagagcc ccaagaatgc cggctacgtc atcatccacg 300
acgctgacga gtacggcgcc ggtaagaact agggctgggg atccgtcttc ggtctcgccc 360
ggggtcagca gaaggatttt cgtaatt 386

<210> 52018
 <211> 300
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-005-Q1-K1-E4

 <400> 52018

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 ctattgttgc cctgcaccca aagatcaatg gaagcttggt gcctgcatca gttattggta 180
 tgtactgtac atatctgtgc tacagtggac tctccagtga gccaaaggat tacgaatgca 240
 atgggcttca caatcactca aaagctgggt caactggtag ccttacattg ggactcctta 300

<210> 52019
 <211> 492
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-005-Q1-K1-E5

 <400> 52019

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 aggaccgcgc caaggacatc ctctctctcg tctccggcct cctcttcggc ttcggctgcg 180
 gcgccctcac cgcggcgctc atgtacctcg tgtggctcgt cctcgccctc acctgcgct 240
 ctggatacga cgacgacgtc tacagcgacg acgaggaccg gctgtacgac tccgagagcc 300
 ccaagaatgc cggctacgtg atcatccacg acgctgacga gtacggcgcc ggtaagaact 360
 agggctgggg atccgtcttc cgtctcgccg ggggtcagca taaggatttt cgtaataaca 420
 tttgcatgat tgcttggaat tgtgcagtat actgtatgca cctttttaat catgtgcgtc 480
 tcgtctgtcg gt 492

<210> 52020
 <211> 462
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-E6

<400> 52020

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tcttcatccg tcaaccatgg cgaccagat cagcaagaag aagaagttcg tcagcgacgg 120
tgttttctac gccgagctca atgagatgct gacgcgggag ctggcggagg acggctactc 180
tggcgtggag gtgcgcgtca cgccgatgcg cacggagatc atcatccgcg ccacgcgcac 240
gcagaacgtg ctcggcgaga agggccgtag gatcagggag ctcacctccg tcgtccagaa 300
gaggttcaac ttccctgaga atggcgttga gctttatgcc gagaaggctg tcaaccgtgg 360
gctctgtgcc atcgcgcagg ccgagtcctt ccgttacaag ctctcgggtg gccttgccgt 420
ccgcaggggt tgctacgggt ttcttcgtta tgttatggag ag 462

<210> 52021

<211> 448

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-005-Q1-K1-E7

<400> 52021

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gggcatttat gtcttcaaga aagatgcact tttagacctt ctcaagtcaa aatatattca 120
attacatgac tttggatctg aaatcctccc aagagctgta ctagatcata gtgtgcaggc 180
atgcattttt acgggctatt gggaggatgt tggaacaatc aaatcattct ttgatgcaaa 240
cttggccctc actgagcagc cttccaagtt tgatttttat gatccaaaaa cacctttctt 300
cactgcaccc cgatgcttgc ctncgacgca attggacaag tgcaagatga aagatgcatt 360
tatctcagat ggttgcttac tgagagaatg caacatcgag cattctgtga ttggagtctg 420
ctcacgtgtc agctctggat gtgaactc 448

<210> 52022

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-E9

<400> 52022

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accaggagacc ccaggacgaa gaggacgacg ataccgcagg cgttgtcaag ctcatcagcg 120
ccgaggggctt cgaattcggt gttgacagga aggcgcgcat ggtctccaac accctccgca 180
acatgctcac atccccaggc ggcttctctg agacgcgcca gggcgaggtc cgcttcccag 240
agatccccac caacatcctc gagaagatct gccagtattt ctattggctg ctccattact 300
ccagtgggaa ggagaccacc gaagtttcaa atcgaaccgg agataaccct ggagcttatg 360
at 362

<210> 52023

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-F1

<400> 52023

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cgagtatgat gagcagatct caggctatcc aagggacaat tctgagttca gccccataca 120
gatgatgggt gatgtgagcc acgatgagga tgctgaaagg gatgagggcg aggaggatgg 180
agaggactat gaaactgacg atcctgctgg tgatgaggat gatgacgttg agatggattg 240
ggatgatgac attcgggaca acgatgatgg taatggagca gccaacgcag atgaggatga 300
atgtggtaca tcatcatatt cttcacagta tcgtgagtga tgagagtgga ttgaagatgc 360
gcaggtttg 369

<210> 52024

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-F10

<400> 52024

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gtacaagata tacgtctgat gaatggggaa gccatccatg caacaccaag gaagacaggg 120

attatagttc ttggtggagg ccttccaaag catcatatat gcaatgccaa tatgttccgc 180
aatggtgcag attatgctgt gtatattaac acggctcaag agtttgatgg tagcgattct 240
ggagcacacc ccgatgaagc agtctcatgg ggcaagatta agggttcagc aaaacctgta 300
aaggtgcatt gcgatgcaag tatcgctttc ccgcttcttg ttgcagcaac atttgcacgt 360
aaggttcata actccaaatg aacagactga atgggattcg gtggagtga tgggcaacag 420
aattttgttg aactcttcaa atgacctttt gga 453

<210> 52025
<211> 449
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3079-005-Q1-K1-F4
<400> 52025

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aaagctgaga gccgcactgg aagacatggg ataccgagac ggagacacca tgttcggagc 120
cccctacgac ttccgctacg cgccgccgtc ccccggccag acgtccgagg tgtactcccg 180
ctacttcaag gagctgatgg agctggtcga ggccgcgagc gagaggaccc ggaagaaggc 240
cgtcatcctc ggccacagct tcggcgccat ggtcgcgctc gagttcgtcc ggaacactcc 300
gncggcgtgg cggcgcgagc acatcgagcg cctcgtcctg gtcgcgccga cgcttcccg 360
cgggttcctg gagccggtgc gcaacttcgc gtncgggacg gacatcctct acgtgccagc 420
gacgacgccg gttgccacgc gagccatgt 449

<210> 52026
<211> 161
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-005-Q1-K1-D7
<400> 52026

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gaaaaaataa aaaaaaaaaa aaaaaaaaaa aaaaaaataa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaa aaaaaaaaaa aaaaaaaaaat aaaaaaaaaa a

161

<210> 52027

<211> 329

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-C2

<400> 52027

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atgtataacc ctgctgggtg tatatttctt tgtgatgtgg taagtgagac catagacttg 120

tgtttttttag ccttcttatt gagtgtgctt tgagtatgtc gaagatgaac acttgtagtt 180

ctgaatctta acacatccaa catgtaagag tgtgtttact tcgaaatcta aaacgaaaaa 240

atttctaataa aatacctact aaagcatttg ggatgctctt gcacacctaa acttacttac 300

ccaaaccact taagtaaata gatttggtc 329

<210> 52028

<211> 457

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-C3

<400> 52028

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cctgcctcct cctccaccg gcacccccaa agccgccacc gccgccagct actgcctctc 120

ccgtaccgcc gccgccatcg tacgagcagg ccgtaggggt ggggtgggtggc cgaaggagg 180

aggatgacga cgagggcgcc ggggcggtga tacgggcaca cctgctctct gacttcaagg 240

ccgcggtgcy tgcaggaaaa gtactggtgt ccgacccgct gtctggaaaag ttgaagggca 300

agctttgaaa atgtcatcca ctgtgccgaa gtcataaat atcttctggc atgattgcct 360

agttggcaag actgatcgcc agaagctact caaccagaaa ggctgtgttg tctggatcac 420

aggccttaag ggctcaggta aaagtacctt ggcattg 457

<210> 52029

<211> 275

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-C4

<400> 52029

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ggggtttgcg agtttcgctc tgcagaagg cggtaggcac attggagact gggagcactt 120
caccctccga gtgagcaact tctcaggta gctgtcgtct atctacttct cgcagcacag 180
cgggggcgag tgggttgaag cttgcgatct ggagttcatc tctgggaaca aagcgatcat 240
ctactcgtcc aggaacgggc acgcgaacta ccccc 275

<210> 52030

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-C6

<400> 52030

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ttgacaagaa ccttgacaac caccataacc tcatgaaatt cttccaaagc tcagcccca 120
aggctatgct gtttttgaac ttctccaccg gaccttttga ttctttcaag tctgcctact 180
ctgctgccgc ggaggaattc aaggacaagg aaatcaagtt ccttattggt gacatcgaag 240
ccagccaggg tgccttcag tactttggcc tgaaagagga ccagacaccc cttatcctca 300
tccaggatgg tgactccaag aagttcttga aagttcacgt tgaagctgac caaatcgtcg 360
cttggttgaa agagtacttt gatggcaa at tgacg 395

<210> 52031

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-C7

<400> 52031

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catgatcttg atcttatctg tcgtgctcac caggttgctg aggatgggta tgaatttttt 120

gctgacagac agcttgtcac catattctcg gcccccaatt attgtggtga atttgataat 180
gctggtgcaa tgatgagtggt cgatgaaact ttgatgtgct cattccaaat tctgaaacct 240
gctgagagaa aaaacaaatt tatgggggtcc aacaaaatgt gatagtgaat gccattttgc 300
ttccagcagc tctagcctgt taaggttctc ctgtggatgc atcgagacaa cagcatgctg 360
gcgccaagtt tgagggcagc attgggtctac tatcagagaa accaaataat cccataccta 420
actgttcacg tggaagttac tcacatgac 450

<210> 52032
<211> 429
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-005-Q1-K1-C8

<400> 52032
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gccgacaact acatgttgctg tttgttctgc atcggttcca ccaagaggcg cccaaaccaa 120
gtcaagagaa cctgctatgc tcaggcatcc gagatccgtt agatccgccg taagatggtt 180
gagattatga tcaaccaggc ttctacatgt gacctgaaag aacttgtttc gaagctcatt 240
ccagaagtta ttggttaagga gattgagaag tctacctaca gcattctccc acttcaaac 300
gtattcatcc gcaagggtgaa gatactcatg gcccccaagt tcgatcttgg gaaactcatg 360
gaggttcatg gcgactacaa tgaggatgtc ggtgtgaagc ctgagaggcc tgtcgaggga 420
gatgaggct 429

<210> 52033
<211> 450
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-005-Q1-K1-D10

<400> 52033
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tttcaatatt attgatgtta agcctacaaa catggaagat ctactgagg tgataacatc 120
tgctgaattc catcctactc attgcaatac attggcgat agtagctcta agggctccat 180

tcgacttggt gatctgcggc aatcagccct ttgcgacaat cattcccaaa tctttgagca 240
gcatgaggcc ccagggttcaa gatcattttt cactgagatt atagcttcaa tttcggacat 300
aaaattttcg aaggatggga ggcatattct cagtcgtgac tacatgactc tgaagctttg 360
ggatgttaag atgaattctg gtccctgttg aacattccag gttcatgagt atctaaggcc 420
taagttatgt gatttatatg aaaatgactc 450

<210> 52034
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-D12

<400> 52034

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gcggcgcggg ccggccgccc ggcgagggtc gcgtagctgc cgtcgattgt cgccggatcc 120
atccaccatg ggcggtggca acggccagaa gtccaagatg gcccgcgagc gcaacttgga 180
gaagaacaag ggggccaagg ggagccagct cgagaccaac aagaaggcca tgagcatcca 240
gtgcaaagtg tgcattgaaa cattcatgtg taccacgact gaagtgaagt gccgggagca 300
cgccgaggcc aagcatccca agacagacgt gtaccagtgc ttcccccatc tgaagaagtg 360
aaaggcctga acttagcaac cagtgtctgt ttggtcacta cgatcgggcc agggggcggt 420
ccttgtgttg aggggtgttca ttccgtgtta tc 452

<210> 52035
<211> 402
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-005-Q1-K1-D2

<400> 52035

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gctggaggga aggcgaagaa gggagcggcc ggtcgcaagg ccggcgggcc gaggaagaag 120
tcggtgacga ggtccgtgaa ggccgggctc cagttccccg tcggccgcat cgggcgctac 180
ctcaagaagg gccgctacgc gcagcgcgtc ggcagcgggt ccccgctcta cctcggggcc 240

gtcctggagt acctcgccgc tgaggctctg gagctcgccg gcaacgctgc caaggacaac 300
aagaagacgc gcatcgctcc gcgccacgtg ctgctggcga tccgcaacga cgaggagctc 360
gggaagctgc tgaccggcgt gaccatcngc cacggcggcg tg 402

<210> 52036
<211> 461
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-D3

<400> 52036

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gcatggccaa ggccaaggag cagggaagc tgggtggtcat cgacttcatg gccccctggt 180
gcagtgggtg ccagatgatg gcccgggtgt acgcggactg cgccagcaag tacccttccg 240
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atgtgatgcc gaccttctgc ttcacagga acggcgagac gctcgagagc tttgctaccg 360
tcgacgagga cgagctccgg gacgccgtca ggaagtacgc cgtcgctggc actacgacgg 420
ctcctgccct cgcgttcgcc taattcagga gatgtgatgt g 461

<210> 52037
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-D4

<400> 52037

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gactgtgtca aggcaagctg tggacaataa cagattgcga ctgagcggga agacaggtgg 180
cttggtgagg ccatctgtgg atagggtga acgagctgca gcaagacaag atgttccaga 240
tagattcact ggtcaagctg gtgcttttgc tagaagaacc ggctctgggt ctggtcaata 300
cggagaacac acaaagcaca ggactctgtt ggattcactt atggcatcca agatggctgt 360

tgattcagat aaaaagaaag cattcatcat ctcggaatgg aagcaca

407

<210> 52038
<211> 347
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-D5

<400> 52038

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tttttttttt atattttatt ttttattttt tttttttttt ttttttttta tttttatatt 120
ttttattttt attaaaaaaa aacctagcca aaattaccac taaaaatcaa aaatcccact 180
ttttaaaaaa aaattatttt ttaactaaaa acttaccaaa aagaccaact taattttaaa 240
aacttaattc caatttcctt actcaaaacta aaaacceaat accttcttta actaaaactc 300
ttatacaaag atttaacact ataactactt caaataattt accctag 347

<210> 52039
<211> 328
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-D6

<400> 52039

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ggagatcgtc gacttcacg gcgagatggt cttgctggag aactacagcg cgctcaacta 120
caccggtgag acgcatctca ctagggatga gagagttttt atttttattt caaaaagata 180
gagaggggaa aaacaatcgt gcagcgttag atttcaagat tcattctaaa cgtactgaca 240
tagagcaatg gatgctctgg gttaaccagg gctgggtcaag attctcaagg agtacgacaa 300
gaggaccggc gcgctgatcc gtctgctc 328

<210> 52040
<211> 383
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-C12

<400> 52040

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gctcctataa tacgcgctat ggacaaactc atctgagcgt cctccgctcc cgggactggc 180

tccgccctca ggccggtggc agtcgccggc ggctccgcg gctacaacac cggcgctccg 240

ctccgacgct acgagggggc cgagtcggaa gacgatagcg tccgcgagta cgatgggcgg 300

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tagtgcgccg cacagcattg gcc 383

<210> 52041

<211> 455

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-005-Q1-K1-A8

<400> 52041

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ggccgaggag ggtgccgtga tcgcgtgcca caccaaggac gagttcgacg cccgcatggc 120

caaggccaag gagcagggca agctggtggt catcgacttc atggccccct ggtgcagtgg 180

gtgccagatg atggccccgg tgtacgcgga ctgcgccagc aagtaccctt ccgcggtctt 240

cctcgaggtc gacgtggacg aactgctgga agtcgcgaag atctacggcg tccatgtgat 300

gccgaccttc tgcttcatca ggaacggcga gacgctcgag agctttgcta ccgtcgacga 360

ggacgagctc cgggacgccg tcaggaagta cggcncgct ggactacga cggctcctgc 420

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<210> 52042

<211> 229

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-A9

<400> 52042

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tcgtgaatgt taataaaaga aatcgatcac atgcagtact tgtatctaga gttcttccta 180
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa gaaagacaa 229

<210> 52043
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-B1

<400> 52043

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catgtacgcc aagcgcgcct tcgtgcactg gtacgtcggg gaggggtatgg aggagggcga 180
gttctccgag gctcgtgagg atctggcggc gcttgagaag gactacgagg aggtcgggtgc 240
tgagtttgac gaggggtgagg acggcgacga gggtgacgag tactagacgc tctactggcg 300
cggcgtcgtc gggcttgtgt gccactgcta tcctgtgatc tgccctgagt ggctcctatc 360
gtgttatgtt tctgtcgggt cttatctatc tgtcgttgtg tggtttaciaa cttacgttgt 420
aagactttat tccccgctt tgctact 447

<210> 52044
<211> 183
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-B11

<400> 52044

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atcaccaacc ataacaccgc ccaaaccctt acctcgtacg gtatatccat cctcaaatgc 120
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ctt 183

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<211> 459
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-005-Q1-K1-B2

<400> 52045

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caccttttct ttctcgttca atgagtgtgtg ttgggcgggtt ggggaatgaa ccatctgccca 180
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ggcaatcgat gtttacatcg caacctttca ttcggccatc agagaccttg tcttggaag 360
aggaaacatt attgagatct gggtttacat ttggaactgt gaagcccagag tcaactgaacc 420
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<210> 52046
<211> 462
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-B3

<400> 52046

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agaatgacga gcagtccaag cagtttgttc atatgctgaa ctctaccttg actgccactg 180
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ccaaacaagc tgctgactcc aaatcaaaca agtccaaatc aaagggaaat gctgcttgag 360
ttggacgaag aacagactgg aatgcaaagc cacgtgcagg ttgcaaattc ttatttatgt 420
taaatttttg ggcctatcag tacacagtac tcatagcatg ac 462

<210> 52047
<211> 385

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-005-Q1-K1-B4
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 gagctcattt ctgcccttgc aactgacatg agcacttcaa tctcccaatg tagcaactac 180
 tctggtgcat cagcaccctt acgctgcaat ggaaatgttg actgcatcaa tccagcgcat 240
 tgtatattct ccaatgagca atcacctgat tttcagaaat gctatcaggg tgaacaagat 300
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<210> 52048
 <211> 456
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-005-Q1-K1-B6
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 ccgcccgaca tttgcaggat ttgtcgacac ggacatctcg aacggcaaga tatccctgag 120
 aagcctgacg gaccggtcgg tcgttgagag cttcggagcc gggggcaaga cctgcattct 180
 ctccagggtc taccgctcgc tggccatcgg caaggacgct cgcctctacg tgttcaacaa 240
 cgggagggcg caggtcaagg tgtcccgtct caccgctgg gagatgaaga agccggtcat 300
 gaacggggcc tgaagatctt gaataaatat atcacccatg catgacatat tggcgctga 360
 ggaatctttc cttnttttaa aaaacatatt ttagatgtcg tttattaaga gttgaattgt 420
 cataactaaag ggcgccccgt tatatgttac aatggt 456

<210> 52049
 <211> 399
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-B7

<400> 52049

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gagctaatta gtactggaag aattctttat agcgtccaga agcattcatc ttagatttcg 180
tatgggtccct tttattttcc tgggtacaatt tatcttctgg tggctgcagt tgatggattg 240
tcgtgtatcc ttagcttgca aaactgggta gtttccttaa tccttcacat catatctctg 300
gctcccgatg ctgtttctgc atcctaaatg gcagtagctt tgggaaccaa ctgcatgtct 360
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<210> 52050

<211> 461

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-005-Q1-K1-B8

<400> 52050

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ggaggctcga ggaaactgag gccgggagcg ccccgaagaa tattctccac ccagtgcgag 180
acaccctcgc gcgcgcgaga gtaagtcgcc tccccgcgag ccagtgtctt tcgtgatgat 240
atatttccag atccggtttg tccgacgcag atggtagggc tggagaggct gccgatgtgg 300
tattgaagag ggatttagat gcatgaattt tgtgttcgta acgtggattg gtgtggggtg 360
ggagaggctc ctttgccgga ttggccagggt taccattgta cctgtgtagc tnggcagttg 420
gttgactgtg tgacaacctt gagctatgtc atattacgaa a 461

<210> 52051

<211> 343

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-C1

<400> 52051

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 tactcttact ccctgtagct ccacgtagaa gaaaccgatg tcctgctgct ggcaattttt 180
 cttagtccaa aaaaaaaaaa aaaagaacaa aaaaaaaaaa aaaaaaatat aaaaaataga 240
 taataaaagt atactaagat agcaaaactg tttaacatac cttaatacaa catatcaatt 300
 tctgtggctc ccaatacatg aaaatgtagg ctggccggtt taa 343

<210> 52052
 <211> 436
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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 ggctgcgcga cgcgtgcgag cgcttgggct gctttcgggt gaccggccac ggcgcgcccc 180
 cggggctcct ggccgacatg aaggccgcgc tgcgcgcgct cttegcacct cccgacgacg 240
 ccaagcgccg caacgccgac gtcacccccg gcagcggcta cgtcgcgccc tgccccgcca 300
 acccgctcta cgaggccttc gggctcctcg acgccgncgc gcccgccgac gtcgacgcct 360
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<210> 52053
 <211> 557
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-005-Q1-K1-C11

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aggaccgtca tcgcgttctt cggtagggccg cctgcgggcc cgagggcgct ccgcgcccct 180
agccccggtc ttccgcacgc ccgtcccgcg gngatcgtc gccactttcg cccgtcggct 240
tctttcgtcg cgcttccgct cgcgcgcgct tcaacttttt cgcgcgccgt cccgccactt 300
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agtagtagtg agaatttggg tcggtgctgt cgtgctcgct tcgcatttnt gggtcggatc 480
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gtgaatctca tcccccc 557

<210> 52054
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-A7

<400> 52054

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ctcaccacc cccgctcgcg cagaaggccg ccgcagctct tactactggg gccctaaacg 120
ccgatatccc tggtcgctc cctttcccca cccaaaaccc cggccttcag ggttcgggca 180
ccatgccgca gggagatcac atcgagctgc accagaagcg ccatggcaag cgcttgacc 240
acgaagagcg caagcgcaag cgcgaggccc gcgagggtgca caggcgctcg aaggatgccc 300
gcaatttgat tgggtgctaag ggcaagaggt tcgccaagaa acgctatgct gagaaggcac 360
agatgaagaa gaccctgaaa atgcacgacg aatcaaataa acgacagaag gttgatgatg 420
atgt 424

<210> 52055
<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-H10

<400> 52055

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gcgacgcacc gccagtgcct gcgactcctc ctccctcgtgg ccgccgccct cgccgccgtc 120
cctgctcgcg cggcgctggg cggcgggcgc ggcccgtgc tggcggggtg gaacccgatc 180
cctgacgtga gcgactcgca catccaggag ctagggcgggt gggcgctggg gcaggcgaag 240
caccataagc tggccgccga cggctcgcgg atacgccgcg tggagcgcgg cgagcagcag 300
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gtgccctacg tcgccgtcgt gtacgagcag gtct 394

<210> 52056
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-H11

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gtgccgtcgg tgatgaccga cgccttcaga tgcaccaaga tggggaaggg caagacgatc 180
gtgctggggc tggggagggg cagcgacgag gtgtgcctgc cgctcgtgga gctgctgttc 240
gggaggtgcg tcatggggtc gctcttcggc gggctgaagc ccaagacca catccccgtc 300
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ggact 365

<210> 52057
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-H3

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gtactcaagg tccccctcat acagcagggg gcacccaaaa gggaggtcaa gatcacaatc 180
tccagctcgg tctcagtcta ggtcacctgt cctgatacct agatctcagg cgaggtcaag 240

atctagaagc caagaaaagg aagaagatgc tgtaaccgg ggaataactc tgtatgtgac 300
 tgggctctct tcgaggggta ctgaaaggga tgtaaggat ttttttcta aacatggaaa 360
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<210> 52058
 <211> 389
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-H5

<400> 52058

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 gtgaaatgga acaaatacacc accaccacac cagcgaatcg caggactcct tctagcctga 180
 cgcataatcgg gtgaaatgga acaaagctcc acaaccacac cagctatcgc atgactcctt 240
 tgagccgaat gcatattggg cgggatctaa gaaacatgcg caaggagcaa cggacgttgc 300
 tgatgagaca acgccagcac gtggtcatgg tctgcatgtc gcgaccggga tgctcttcac 360
 gaggaagagc ttgcttccag ggacagccc 389

<210> 52059
 <211> 401
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-H7

<400> 52059

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 gaacggcttc atcgtcatca agaaccgccc ctgcaagggt gtggagggtt ctacctcaaa 180
 gactggtaag catggccatg ccaaagtcca ctttgttgcc atagacatat tcaacgggaa 240
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 tgagtaccag ctgattgata tatcagagga tggatttgtg agccttctta cttcagatgg 360
 caacactaag gatgatctta gactcccaac tgatgagact c 401

<210> 52060
<211> 395
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-H9

<400> 52060

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ggcgccccca ggaggccgc cgatcagctc acctagaatc cggctgaaag acggccggca 180
ccttgccctac agggaggaag gaggcgagc ggagaacgcc aggttcaaga tcgttttcat 240
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gctgggcata tacatgctct tcttcgacag agccgggtat ggcgacagcg acgccaaccc 360
gaagcgctgc ctcaagagcg acgccacgga cgtagc 395

<210> 52061
<211> 415
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-005-Q1-K1-A1

<400> 52061

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cctggccggc aacggcttca cggggcctat accggcgctc ctcggagact tacaggtgct 180
gacgtacatc gacctgtcca gcaacgccct caccggcggc attccgacgg agctccagaa 240
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tctgatcacc gagcttcccc cggtgttctt ccagggcaac ccggggctgt gcggccccgn 360
gttgccgaaa gactgcgagc ccgacgcgcc atcgcgagg cgtagggac tcgag 415

<210> 52062
<211> 364
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-A10

<400> 52062

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aaaataagac tagcctataa tagcttacct atcatagcta acttatttat tacaccttcg 180
aagaataata aaacttcatc aaatcgaatg acttccttaa ctataacaac atatcccatt 240
acaaaaccta tatttcctcc tctattatac catcttcctt taaaagcatt cttcctatgc 300
caccagaat cataccacct ccatcaccta agatcattcc tacagcttca ccaaacttac 360
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<210> 52063

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-A11

<400> 52063

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cagatcctga catgcttgag gtgggcaacg gcggcattgc cgaggcggag taccgctctc 180
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gccaagggtc gcagggaaag aaagtgcagt ccagcaatgg cttggagggt tgggctgggc 360
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<210> 52064

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-A12

<400> 52064

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<210> 52065
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-A2

<400> 52065

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acatcccgt caccacctac ctccgcacct acaagatcgg cgactacgtc gacgtcaagg 180
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aggtcatcag caccaag 437

<210> 52066
<211> 451
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-A5

<400> 52066

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cagaataatt catcagcacc agctcatcat gtttaagcgg cgaatcccat gtttggactc 240
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<210> 52067
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-A6

<400> 52067

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gacaagc 427

<210> 52068
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-G9

<400> 52068

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tatgcacagg acagataaag tggacgaaca tccttctggg atgaggcaca ccgatgacat 240
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<210> 52069
 <211> 406
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-E7

<400> 52069

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<210> 52070
 <211> 390
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-F1

<400> 52070

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 ttgttatcat tacacatcta ttacatcct ttaaataaat acatccatta aactttgata 180
 aatgtatttg aaaacctgca gaagagaggt cattgatgag gatggttgggt tacatactgg 240
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gtgcaagttc attgctcaat gctttatata 390

<210> 52071
<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-F10

<400> 52071

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tcggagccgc tggctgtgcc tgggtg 385

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<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-F12

<400> 52072

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tctcgccgg agaccgcgaa gtccgccgct tccattccca cctcctcggc cgctctgcg 180
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gcatttcgaa gcctcggact agatt 385

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<211> 347
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-004-Q1-K1-F3

<400> 52073

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cacctaattt ccttccatcc gaccctacg accgcgccat tgctcgcttc tgggcctnct 300
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<210> 52074
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-F5

<400> 52074

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ggataaatca tggcgtgttc gttatatggt tgccaatcaa ttatatgagc tctgtgaagc 360
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<210> 52075
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-F7

<400> 52075

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 gttattctgc gtctattctt tccacgacac ttcccagatt ggtagagct tcctggttcc 360
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 <211> 416
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 <213> Zea mays
 <223> unsure at all n locations
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 caccatggc atccccaga gccagtgggt caccaaaggg cgttcctatt atcacagatg 240
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<210> 52077
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 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-004-Q1-K1-G1
 <400> 52077

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 tattttctgg tgtttgtccc catattcagt gtctgtagat aagagacatg aaatgtccca 300
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 gaagctgcgg c 371

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 <211> 293
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 <213> Zea mays

<223> unsure at all n locations
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 taatgcattc tgagtttgtg cagattacac tacgtgatat acacatgtct cgaagtaacg 120
 cagaagtaca tacatatttg aactgaagt ggttatttat gtcatagcga ttatgagtgc 180
 cacacattca ccagcttagt catctttaa ccttgcttct agcccatggt atacttatgt 240
 ctccaggagc gtacagagga ctcatcttg gccgtgtag acgatgacat atg 293

<210> 52079
 <211> 415
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-G11

<400> 52079
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 ttctggagca tgaaaccaga tgccaccctg gaccattaa gtttgcattg ggggtgtcct 180
 gtgattagag gaaataaatg gtcgtcaacc aagtggatgc atatccacga gtacaaagct 240
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 gggctgtcta ctgggttgac acccatgtat gctttacaga cccactgaag ctgtattctt 360
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<210> 52080
<211> 381
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-G3

<400> 52080

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acgtcctagt ccagactatg gtcgcccagc aagtcctgta tatggttcat atgacgggtcc 240
tggtcctgtt cgtgatcgct atcggagatc ttctgcttat cgatcaaagt ccccaactgc 300
gaaacgaaga gcatatgact aatcgagaac cctttgttat gccatatatg gcctaagaac 360
accctgtagc aagaacttac t 381

<210> 52081
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-G5

<400> 52081

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tgctcaggat caacgttgac cgcggcgtga tgatcggcg 399

<210> 52082
<211> 333
<212> DNA
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<223> Clone ID: LIB3079-004-Q1-K1-G7

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acccctctta atttgctagg gctgcaacaa tatcttagcc tttgggatgc ttttaaggcga 180
gtgggtgctca ctcaggacgc ggatcgacat gtgtggattc atgctacctc tgctcagttc 240
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<210> 52083

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-E5

<400> 52083

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atcaaattgt tattccagag aaaaacagtt ggaagaactt attctcatac atagggcctg 180
gatttctcgt ctcaattgca tatattgac ctaggaaactt tgagacggat ctacaggctg 240
gagcacagta caaatatgag gtgcctgctg cttcagttct atgttccac ttcttctttg 300
gatcatacct tgtgcatcct gtgctgctct tattattcaa tcacttgcag ccaggctagg 360
ggttgtgaca gggaaacatc ttgcagagca t 391

<210> 52084

<211> 230

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-C5

<400> 52084

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aaaaaaaaa aaaaatgcca tcctttttac aaattccatc tttccttaac ctttctttca 180
aatttctttt tttttcaatt ttataactta atttaattcc cttgaccatt 230

<210> 52085
<211> 398
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-004-Q1-K1-C6
<400> 52085

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attagtaagg tctgatgaaa ctattggcaa cgcttacc 398

<210> 52086
<211> 372
<212> DNA
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<223> Clone ID: LIB3079-004-Q1-K1-C9
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ccggaggctg gcgaggaggg gcggcgtgaa gcgtatctcc gggcttatct acgaggaaac 240
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<210> 52087
<211> 391
<212> DNA
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<223> Clone ID: LIB3079-004-Q1-K1-D1

<400> 52087

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accattgaca atgtgaaggc caagatccag gacaaggagg gcattcccc aaaccagcag 360
cgtctgatct ttgcgggcaa gcagctggaa g 391

<210> 52088
<211> 207
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-D10

<400> 52088

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aagtccacca aaaacccaaa aattggtccc caggtgcctt tggaccaagg aacctttaat 180
aatccagaaa attttccatt ccccaa 207

<210> 52089
<211> 356
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-D11

<400> 52089

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aaagcagtgg tatttggaga gtcattgtgtc ttcagtaaca tgtttattaa gggatattttt 180
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cctgtgaata cgaatctggg tagtgagcac aagacagggt ctggtcagca ctcggaacaca 300
aaagatcttg gtggaatgg cactagcagt accggtgctt catcagacag agggtc 356

<210> 52090
<211> 262
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-D12

<400> 52090

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tcatcaatga caagttcggg atcgttgatg gtctgatgac cactgtccat gccatcactg 180
ctaccataa gactgtttat gggccctcat ctaaggactg gaaggggtga aaggctgcta 240
gtttcaacat cattccaac aa 262

<210> 52091
<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-D3

<400> 52091

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 <211> 191
 <212> DNA
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 <223> Clone ID: LIB3079-004-Q1-K1-D4

 <400> 52092

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 <211> 401
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-004-Q1-K1-D7

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 <212> DNA
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 <223> Clone ID: LIB3079-004-Q1-K1-D8

 <400> 52094

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 <212> DNA
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 <223> Clone ID: LIB3079-004-Q1-K1-C12

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<210> 52097
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 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-E10

<400> 52097

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<211> 339

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-E12

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gaacgccatc gagggcatga acggcaagga gctggacggc cgcaacatca ccgtcaacga 240

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-A5

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<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-A6

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<210> 52101
<211> 98
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-A7

<400> 52101

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<210> 52102
<211> 396
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-A8

<400> 52102

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tcctgcaatg tacttttggtc ttatgggtga tggccagcct attggtcgct acgatgatat  180
gtgggcagga tgggtgcacaa aggtgattac ggaccatctg ggcctgggtg tgaagactgg  240
cctgccctac atctggcaca gcaaagcaag caaccgttt gtgaacctga agaaggaata  300
caacggcatc ttctggcaag aagagctgat cccgttcttc cagtcggtct cccttccaaa  360
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<210> 52103

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-A9

<400> 52103

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cattcattta gagtttgata ttgctggaac tggcctaaaa tatgaaactg gagatcatgt  180
tgggtgtctat gctgaaaatt gcatcgaaac tgttgaagag gcagaaaaac tgctaggtta  240
ttcaccagat actttattct ctatttatgc tgaccaagag gatggtagcc cgctctgtgg  300
gggttctttg ccacctcctt tcccgtcccc ttgcacagtg aggactgcgc ttacgagata  360
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<210> 52104

<211> 229

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-004-Q1-K1-B1

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 cccccaaggg ccccgatccc gatgtggttg ctattgttga gaagttggct actgtgaaac 180
 acaaattatt agttntgtct ggaaagggag gtgttggaag gagcacatt 229

<210> 52105
 <211> 389
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-B10

<400> 52105
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 caaccgtgag aaggtgcaaa aagacgaggc cgccgccgcc cgggaggagc agctccagcg 180
 cgaggcggaa cgccgcccgcg agtcggatct acgcctcgct gcactacgcc gtaaccgcgg 240
 cctggtccag ggggagacgc cccccgtcc tccatctcac ccgccggcc ccgctgatcc 300
 ggcggacgcc cttccttccc cggcggacgc ccttccttcc ccggcaacgg atggagacca 360
 catcaacctc ttctcaggtg gatcaagcg 389

<210> 52106
 <211> 434
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-B11

<400> 52106
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 ctacttgct cctagtgccca ttattccaca gttcctccca ccagttactt caatgggctt 180
 cgaacaccta gctgtgcaag ccaacatgca acaacaagcg cttgcggcga gcgtcttaca 240
 acaaccaatt gcccaattgc aacaacaatc cttgccacat ctaacaatac aagccatcac 300

aacgcaacag caacaacagt tcctaccagc actgagccac ctagccatgg tgaaccctgc 360
 cgtctacttg caagagcagc tgcttgcac caaccactt gctctggcga acgtagttgc 420
 aaaccaacaa caac 434

<210> 52107
 <211> 382
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-004-Q1-K1-B3
 <400> 52107

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 agtcttgacc gggctatcca ggacgcggag gcatttgtga ctattgcagg agaaaatggg 120
 gcttcctgca ttccacctgg aacccacact tcaatgcccg tcgagaccga tggtagcatg 180
 tacgtgcaag aagacgaggt cttgtgagat atcggtcacc ctagaaaata atcgcataga 240
 agcatcgcaa gtttttatcc agtaatgctt tcgtcgtcgt cataaatgtg atccgttgta 300
 agtttgaag aatcatgaaa acctagagtt ggggtgtatat actaccttga taaacctga 360
 aattgatact ttcactattc tg 382

<210> 52108
 <211> 350
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-004-Q1-K1-B4
 <400> 52108

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 acttcctgac aatcatgggt tccgcactat caaatcattc agcgagatct gaggaatctg 180
 gtgatctgga catgtctaga tatatgtaat tcgcgagtgc tttagccac gtgccacttc 240
 atgcagtaga agcattatag caccgcagca tggcaaaacc attcgacgta acccttagtt 300
 tcattgcgaa ataaaaactt tgggttcagt ggctaaaaaa aaaagaaaaa 350

<210> 52109
 <211> 272
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-004-Q1-K1-B5

 <400> 52109

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 atatttggtg cactgagta taccacagcg attgacattt ggtctgctgg ttgtgttctt 120
 gctgagctta tgctagggca gcctttgttt ccagggtgaaa gtggtgtgga ccaactcgtc 180
 gaaatcatca aagtccttgg tactccaaca aggaagaaa ttaaatgcat gaaccggaat 240
 tacacagagt ttaagttccc acaaatcaaa gc 272

<210> 52110
 <211> 417
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-004-Q1-K1-B6

 <400> 52110

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 cgatgtgctc ggcgtcagca agagcgccag ccaggcggag ataaaaaagg cctattatgg 180
 gcttgcaaag aagctccacc cagacacaaa taaaggatgat gcggatgcag aacgcaagtt 240
 tcaagaggtt caacgagctt atgagacttt aaaggatgaa caaaaaagat cattatatga 300
 tcaggttggc cctgatcagt atgagaaaac tgcttctggc ggaggcggaa ctggcttcga 360
 ggggtggtttt ggaaatccat ttgaggatat ttttggtggt ggccgtggcn gtggtgg 417

<210> 52111
 <211> 378
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-004-Q1-K1-B8

 <400> 52111

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catgaggaat ttgaggagca tgctgagaag gcaaagacct tgcctgagag cacgagcaat 120
gagaacaagc tgatcctcta cgggctctac aagcaagcca cggttggaga tgtgaatacc 180
gatcgtccgg gcatattcta ccaaaaggac agggccaagt gggatgcctg gaaggctgtt 240
gaaagcaaat cgaaggatga agcgatgaat gactacatca ccaaagtga gcaacttcaa 300
gaagaagctg ccggctctta aaagtctctt aatagtgttg ccaaacagct atttggcaga 360
tgagctttgt gccatttt 378

<210> 52112
<211> 403
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-004-Q1-K1-B9

<400> 52112

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gcgagggagt agagtaaatt gaatcaggtt tcgtgtcgat tcggaggctt tcgcttctgc 120
ttgcggagtt gcggtggaga tttgaggcct gcggcgaaga tggcacctgc ggaatccggg 180
gagaaggcga ccagcttcgc catggcctgc agcctgctca gccgctacgt caggcagaac 240
ggtgccgccg ctgccgatct cggactcgct atcagagctg aatccgatgc anagaggacg 300
tcgacggaca tggaaaaggg ggagacggng aaggagacca tggatctctt cccccagatc 360
gctggattcg gctcggaggc cgncacgaag gaagcccctg atg 403

<210> 52113
<211> 382
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-004-Q1-K1-C1

<400> 52113

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gacggatatc cgggtgcttgc tttgatgcgg ctttgggaat cattccaggg ctaaagggtc 120

gtggaactga ttactccact gcagatggaa cttgtattag ggactacatc gatgtcacag 180
accttgtaga tgcccatgtc aaagctcttg gtaaagctca gccaggcaaa gttggaatct 240
acaacgtcgg aacaggccaa ggtagatcgg tgaccgagtt tgtagaagct tgcaagaagg 300
caacgggagc ttncatcaag gtcgaatatc ttgcccgtag acctggagat tacgccgagg 360
tatacagcga cccgtcgaaa at 382

<210> 52114
<211> 381
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-004-Q1-K1-C11

<400> 52114
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caccgccgca cccgccgct cccgctgccg ctccctccgc ctccgccccg ccggccgccg 120
gtcggccccg tctcgcctc gggccaccaa ggctgtggtg gcagcgttgg ctgacctct 180
caaggtcattg atatcaggag ctccggcgtc cggcaagggc acacagtgcg agctcatcaa 240
gaccaaatat caactggcgc acatctccgc tggagatttg ttgcggggcg aaatcgctgc 300
tggctctgag aatgggaagc gggccaagga attcatggag aagggccagc tcgtgcctga 360
tgagattgtc gntaatatgg t 381

<210> 52115
<211> 287
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-004-Q1-K1-A4

<400> 52115
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tactccagct agctcgcggc ggcggccagc ggccatggcc ttccggctga gcaacaacct 120
gatcggggtc ctaaacttcg tcaccttctt gctctccgtc ccgacctcgg gcgcgggcat 180
ctggctgggc caccgcgccg acggcaccga gtgcgagcgc tacctctcgg cgcccgatc 240

cgcgctgggg gccttcctnc tcgccgtctc cctggcgggc ctcgtcg

287

<210> 52116

<211> 438

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-003-Q1-K1-G4

<400> 52116

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tctaacctcc tgatgatggc actcaacggc ggttgagaga agaccttcgt gtccatcctg 120
acgacatgct ttcttggtgt ggttgtaatt gtttccctat cctgcgaagc aaaaggcggc 180
gtcgtcccca ggttgcgccc accattctgc tttccatacg atcgtgaata ctgcacgcca 240
tttcaactgc gcaaagtttg ccaagagtac aacttccctg ctaagaatgg cggctactgc 300
gataaacgtg gtgacccatg gaagtgtctg tgtccatatt gaaacgtaca aaatgcatgc 360
atccatccgt gctgctacct gatcgatata catgtcaatc atcatcaata tatataatga 420
atgaantaaa tgcattgtg 438

<210> 52117

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-G6

<400> 52117

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cgggttcgtg ggtgagcgga tcgagatggc ggcgtcggat gttgagtacc gctgcttcgt 120
cggcggcctc gcctgggcca cggacgacca ctccctccac aacgccttca gcacctacgg 180
cgaggctctc gaggccaaga tcctcctcga tcgggagacg cagagggtccc gcggcttcgg 240
cttcgtcacc ttctccacgg aggacgcgat gcggaacgcc atcgagggca tgaacggcaa 300
ggagctggac ggccgcaaca tcaccgtcaa cgaggcccag tcccgcggcg gccgtggagg 360
cggcagcggg gggtagcgtg gtggccgtgg aggcggcggc tacggcgggt gcgggcggcg 420
tgatggcggg ggcggctacg gcggtggcgg cg 452

<210> 52118
 <211> 293
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-003-Q1-K1-G7

 <400> 52118

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 ttgtagtaaa gaaatgagca agagaagaag gaagactagt cagacaaaat agaagacgag 120
 aagaactgat gtagccatgt tcatgcttcc atgtaatagt tcattattcc atacatattt 180
 ctgtctatcc agaatctact attgaaatac atatctagca tagcttgctc agctcctata 240
 tgttgtttca acgttgattt aaaagaagag ctggtagttg tgggcttttg aac 293

<210> 52119
 <211> 399
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-003-Q1-K1-G8

 <400> 52119

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 tgatggcatt cagaaccatc acagtgacct tccatttggt caagctcaca gcaattttgc 120
 tccatttatg tccccagatg gggatgattt ccagcaaatt gaggggtgtca agagcaacct 180
 caggaacatg cagtagagcc cttacggcgt tactagaagc tcgattctac cctgtgaagc 240
 ttaccaaggg ggcaacatgt gccgttttaa tggcttgtgg aactgaacat aacaaaagct 300
 tgtgcctggt gcattctccc agaaattgat gtggttcggc tcatttgcgg agatgtgatg 360
 tggtaacga tataagatac atgctctctt tggttaagt 399

<210> 52120
 <211> 447
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-003-Q1-K1-H1

 <400> 52120

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atgtaccatg ggagatgttc gctgactctt gccgcaggct caggatcatg aaaggatcag 120
atgcaattgg acttgctcca agggcagctg ataagtccaa gaatcgcaac tagaatggtt 180
gcttcttaca gtccagagca agagggagat atccagtac tgtagggatc tttgtggaag 240
ccggaaaacg tctaacagtt tcaagaagaa ttctgcctta tggctctgtac cacatgtttt 300
tgctgctacg caagtaaaga actccacgtc tgtcaatgtt agttttacaa catcgtctac 360
ggacaaaaaa aaaaccccc gctatttgat tgttgctaaa cctttgtacg acgtgtaaaa 420
tgtttggtac aatgagtgtc gcgacta 447

<210> 52121

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-H11

<400> 52121

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ccagggtctg aagaaagagt tcagctataa caagatcctc aaggatctga agaaggaatt 120
ctgctgcaat ggtactgtag ttcaggaccc agagctaggc caggtcattc agctccaagg 180
tgaccagcgc aagaatgttg ctactttcct agttcaggct gggattgcga agaaagagaa 240
catcaagatt cacgggttct aagggaacctg taaatgcttg tgccctatat tgtgtgcctc 300
cacatattgg ggagcttgaa gcatcgacag ttactagtca ttgcttactt atataagaac 360
ataagtagta tttgctattg tcaagtgtg 389

<210> 52122

<211> 218

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-H3

<400> 52122

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gttatcgtat tccgcgagta aaaaggaaaa ctgctcgatg tccttttgtt tgttgcttgg 120

taataaccgtt ctgtttgcta taattatcga tcagcgggat gtgaagtact gtttacattg 180
ctcgcgttct aataaagtac tgtttggact tgcttaac 218

<210> 52123
<211> 307
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-H4

<400> 52123

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cagaaactgc aagtaaacia aaactgaaaa actaaaaaaaa aaacctctgg atgtcatgta 120
aataagtgtg ctttgtatgt tctccaatgt tgtttccttc atttgtctga ttgaatttct 180
aattaaaaaa aaaaacagaa ggtacaagcg ttagatacta catcaaagtc actgaacatg 240
taaagtctca agtaaaaact cttgaataaa gcttaaccaa gaaaaaaaaa aaggcgcccc 300
cttttaa 307

<210> 52124
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-H5

<400> 52124

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gagccagcag cacgggctgt caagcaaggg cgccaacgag gtgctcctcg tcatcgaggc 180
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ccccgagggc aggggtgccg tcttctgggg gatcacgcgc gacggctgcg tcgccttctc 360
cgacgacatc gacatgctca aaggctcatg 390

<210> 52125
<211> 466

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-003-Q1-K1-H6

 <400> 52125

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 cgggtgcttgc tttgatgcag ctttggaat cattccaggg cttaaagggtc gtggaaccga 180
 ttactccact gcagatggaa cttgcgttag agactacatc gatgtcacag atcttgtaga 240
 tgctcacgta aaagctcttg gtaaagctca gccaggcaaa gttggaatct acaatgtcgg 300
 aacaggccaa ggtagatcag tgactgagtt tgtagaagct tgcaagaagg caacaggagc 360
 ttctatcaag gtcgaatatc tggcacgtag acccggagaa tatgccgagg tatacagcga 420
 tccgtcgaaa atccacatgg aactcaactg gacagcccag tacact 466

<210> 52126
 <211> 214
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-003-Q1-K1-H7

 <400> 52126

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 tgatgcctgt atgccggcat tggacagcta gcgtggtagt atgtttcttc tttgtttttc 120
 tttctgcttt ttcttttttg tcttgccagg tcattgtttt gttggatcaa tgacctggca 180
 agacataaaa aagatcaggc ttgacctcct taac 214

<210> 52127
 <211> 435
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-003-Q1-K1-H8

 <400> 52127

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 tgcttagtga aataacacat ttttcatttt tcttttggtta atcagttgag gtactttata 120

gtactccatt ccagtatttt taattatgtc cacttgatta tgaaataaag gtttccttct 180
taattgaaac ttggaattgg gaaggtcgct cttaatggct attacttggg tccttatata 240
ttaatcttta aatagtggag cgagcccca cccatatgtg tacactgggt tttatttgag 300
actcaaatat ttttatatct ccatatccgt gagcgtttca catttcattt cagcaaaaag 360
cgctattctt ctagaagccc acaacagatc actctaact tgcctagcca caacattctt 420
tcgactgacg gtgat 435

<210> 52128
<211> 279
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-A1

<400> 52128
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aaagtgttga agctgcattg atggagatca accggatact tggattcaag ctggtgctgg 180
agtgcctaga actaagggtc tgttgctacc ttgcccttga ggattatagg gctgccttat 240
gtgacgtgca ggcaatacta actcttgccc caaattatc 279

<210> 52129
<211> 228
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-A11

<400> 52129
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cttgatacca atgctaact ccagtcgacc aaatcaacag tccttcaatg ccacatagca 120
cactcacctg acgttcattg aacccttaca taacacactt atcacttctt tcaccctaac 180
gaagctaaca ctgactaact acaactaaat gcactccacc atttacac 228

<210> 52130
<211> 364

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-004-Q1-K1-A12

 <400> 52130

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 ttgccgaagc ctgtgttgca cggatcgttc gcggaagcgg tttttgatcg gagagagaga 180
 aagagagagc gagggagggg ggtggcgatg gacgctgcag cagccgcggc ggcgcagatg 240
 gagaggcact cgtcggcggc agcgcacatg gagaggcact cgtcgactgc ggacttcgtg 300
 gacggctgcg ttcaagacgg ctgccatgac acctgcagca tctgcctcga gaccttattc 360
 gaca 364

<210> 52131
 <211> 378
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-003-Q1-K1-G3

 <400> 52131

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 aaaaaccctt acctacttaa caattccttc cttccatacc catccatcca acttcaatcc 180
 cctttattat tccccctat atccaatccc cttccctccc ttaaacaacc ttcttatctc 240
 aaaaccctt cttttcccca acttaacctc cttttcatcc caacccttt tttccaccta 300
 ccatttaacc ataaaccccc ccacctacct cccttccaac ctctttctca tcccgatcc 360
 tcaatttaac cccctttt 378

<210> 52132
 <211> 381
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-004-Q1-K1-A2

<400> 52132

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tgacccagtc atcgccgtcg acagcgcgag gaaggcgatg gagttcctcg gcctcaagga 120

cggcgggcgag gagcaggccg tcgacatggg gctcacggac tactgcatgc ccgagatgac 180

cggctacgac ctntctaaag ccatcaaggc actgaacccc ctggagccga tcccggtcgt 240

cgatcatgtc tcagaagact agccccagag gatcaacccg tgagccagcc ggctctggtc 300

tttcctcttt ttgagcaccg gttcctttgg tccctatccc gtcccctgtg aatgcatgct 360

gaatcattcc gtgagataga a 381

<210> 52133

<211> 383

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-003-Q1-K1-F11

<400> 52133

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tgcgtcgttg cctcgcgtct cctggctctc gctgcgagcg ccacctccac gcatacaagc 120

ggcggtgcg gctgccagcc accgccgccg gttcatctac cgccgccggt gcactctgcca 180

cctccggttc acctgccacc tccggtgcat ctcccaccgc cgggtccacct gccgccgccg 240

gtccacctgc caccgncggt ccatgtgccg tcgccgggtc atctgccgnc gncaccatgc 300

cactacccta ctcaaccgcc ccggcctcag cctcatccnc agccacaccc atgcccgtgc 360

caacagccgc atccaagccc gtg 383

<210> 52134

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-F12

<400> 52134

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ggccccgga ccatccagca tgagactctt gccacagaag ctctgtgtgc tgccccgtgt 120

gctccagcga tgaatgctga tgcttgccgc ttccattcta aggctttcca agattgtctg 180
aacaactatg gcagcgagat cagcaagtgc cagttctacc tagacatgct gaacgagtgc 240
cgccgtgggtg gtgtgtctgt ctaagctgcc tctgggatta ttcattggatt ttcttttcgg 300
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atacttctctg ggattaattt attt 384

<210> 52135
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-F2

<400> 52135

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atggggggctg catggggcgcc taatggaacg gatgaatcaa actatgctgg tgaaggattt 120
gcaatggttt ctggaactag catggccgca ccgcatatcg ctggcattgc ggactgata 180
aagcagaaga acccaaagtg gagccctca gcaataaaat ctgccatgat gacaacggcc 240
aatacactgg acaaaggag ccgtcctctc agagcgcgc agtacactgc atcggaaatg 300
atgacacttt ctggggccac accgtttgat tgtggtagtg gcgctgttaa cccaaaagct 360
gcccttgatc ctggtcttgt tctagatgca acccacgaag agtacatcg atttttgtgc 420
tcgatccctg acg 433

<210> 52136
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-F3

<400> 52136

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tggcggtgga tacggtggaa gtgcacgagc aggaagtggc tctggaggcg gctatggtgg 180
aggcgctggg ggaggctact gtgggtggtgc tggcgctggg agtggcagtg gccttggtgc 240

tagcggcggt ggaggttatg gtggtggtgc cggaggctga agctgatgtg gaagttgagg 300
 tggcatcgga agcgggtgtgt gattcaacct cttacatcca tgcattggcgt gtacatgcaa 360
 gtgctcgacg cactgctctt tgcattttaa gcatgcgtgg agtcaagcta atagcatgtg 420
 tgcgatatac cgatcga 437

<210> 52137
 <211> 452
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-F4

<400> 52137

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 gggccgcctc tgcgatcccc gcaaggctgc aaacatgtct accgtgctcc agcgcccgac 120
 ccccggcacg gtccagtgtc tcggccgcaa gaagacggct gtggccgctc cctacaccaa 180
 gccggggcgc gggctgatca aggtgaacgg cgtcccgatt gagctcatca ggccggagat 240
 gctccgcctc aaggccttcg agcccatcct gctggcgggg cgctccaggt tcaaggacat 300
 cgacatgagg atccgcgtcc gaggcggcgg gaagacgtcg cagatctacg ccattcgcca 360
 ggccgtcgcc aaggggctcg tcgcctacta ccagaagtac gtcgacgagg ccgccaagaa 420
 ggaggtcaag gacatcttca cccggtacga cc 452

<210> 52138
 <211> 456
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-003-Q1-K1-F5

<400> 52138

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 gggcaagctg gtggatcatc acttcatggc cccctggtgc agtgggtgcc agatgatggc 180
 cccggtgtac gcggactgcg ccagcaagta cccttcgcgc gtcttcctcg aggtcgacgt 240

ggacgaactg ctggaagtcg cgaagatcta cggcgtccat gtgatgccga ctttctgctt 300
catcaggaac ggcgagacgc tcgagagctt tgctaccgtc gacgaggacg agctccggga 360
cgccgtcagg aagtacgccg ncgctggcac tacgacggct cctgccttcg cgtncgccta 420
attcaggaga tgtgatgtgt agcaaatagc gcgcgc 456

<210> 52139

<211> 464

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-003-Q1-K1-F6

<400> 52139

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cccaaattcc gtgactcatc ttctttctct ttgccaggct gcgcgtgcat accacggacg 120
gacgcactgc cccaatcta ctgtaagtaa tctactaatc tgtaaactcg taatccctaa 180
tcctagcttt gtggccatat atggacgcac gcaccgcccg gagaaggacc tgcccttgcc 240
gctgccgtcg gctcgacgc gcacgcccac gcccgccttg ccgccgctcc tcttctgaa 300
cagcctgcac ggcttctcct cggttgctgc aagcctgcaa agagctccgt ggttgtaggc 360
tgtagcctac tagcctctcc ctccccacc cncacacggc cacacacttg tcaattgnng 420
ttttgtttgg atattgttcg aatccctcgc tgaaatcatg tatt 464

<210> 52140

<211> 463

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-003-Q1-K1-F7

<400> 52140

cccacgcgtc cgcggacgcg tgggagagct cgagctctgc tcggcccccc tctgtgttgg 60
cgcttgctgc acaacacgaa cctcctcttt tcctccacaa aacagcagcc ccgatccct 120
ccgcacgcg tgcttcgttc gacctgcgca gtcccaacc gcgccgtcgc gatggtgttt 180
gagacagccc atgtcgtgtc gttgatctgc gcagttcgac cgtctacgcg tctcacttcg 240

ccggatctgc gcagcccaaa catcgacgcc gttcaccggtg gagacgac gatgatcttt 300
 gtttgattcc acatcgccat tgttctccgg tgattaaatt gtgtatatgt gctgttttgt 360
 tttattttat tttgtggagg cgaggaaccc catgttttgc gtggagaaga aagcaagtcg 420
 tcaacgctcg tccgatgttn cgagtgatgc acaaaatcga atc 463

<210> 52141

<211> 368

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-003-Q1-K1-F8

<400> 52141

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 caacctaacc ccccttccgg ggtgagtttc tatacaatcc gcgcagggtc ctaaacaatgt 120
 ctactgtgct ccagcgctccg acctcctgca cgtttccactg cttccatctc aagaacacct 180
 ctgcacccaa tccctacacc tatcagcggc accaacttat catcgccaac tgcgtccaga 240
 ttgagctcat cagaccgcac attctacatc ttaatgactt cgaactcatc cttctgccag 300
 agcactctac gttcaaggac atctacatga tgatacgttt acgacgccat ttttaagacat 360
 atcagatc 368

<210> 52142

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-F9

<400> 52142

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 cggcgtcaag atgagtcggc accctgaagt gaagtgggct cagaggatcg acaaggttta 120
 catcactgta cagttacctg atgccaagga cgctaaggctc aatttggaac cagatggtgt 180
 cttcacattc tctggcagtg ctggtacaaa cttatatgaa ttgaaactag atctgaatga 240
 caaagtaaac gttgaggcta gcaaaataag tgtgggtgtc aggtccatat tctgtattgt 300
 agaaaaagct gaggccaaat ggtggaagaa acttggtcga gatgatcaaa gggcacctca 360

ctttgtgaaa agtgattggg acaaattgggt tgacgaagat gatgatgggtg ctgatgtcaa 420
 cttggatggg atgga 435

<210> 52143
 <211> 381
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-003-Q1-K1-G1

<400> 52143

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 ggggagaccc aggtgacggt ggagtacgtg aacgagggcg gcgccatggt gcccgtcgcg 120
 gtgcacaccg tgctcatctc caccacgac gacgagaccg tcaccaacga cgagatcgcc 180
 gccgacctca aggagcacgt catcaagccc gtgatccctg agaagtacct cgacgagaag 240
 accatcttcc acctcaaccc gtccggggcg ttcgtcatcg gcggggccca cggtgacgcc 300
 ggctcaccg gccgcaagat catcatcgac acgtacggcg gctgngagc ccacggcggt 360
 ggcgcttct ccggcaagga c 381

<210> 52144
 <211> 399
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-003-Q1-K1-G10

<400> 52144

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 gttgacaaga agactagaac cgaacctgac catgtcgctg atccgccgca gcaacgtgtt 120
 cgatcccttc tccctcgacc tctgggaccc ctttgagggc tcccccttcg gctccggcag 180
 cagcagcagt ctcttccctt cgttcccgcg gaccagctcg gagaccgcgg ccttcgctgg 240
 cgcgcggatc gactggaagg agactccaga ggcgcacgtg ttcaaggccg acgtaccggg 300
 gctgaagaag gaggaggtca aggtggaggt cgaggacggc aacgtccttc agatcagcgg 360
 cgaacgcaac aaggagcang aggagaagac ggacacctg 399

<210> 52145
 <211> 389
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-003-Q1-K1-G12

 <400> 52145

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 taatgcattc tgaatttaaa aagattacac aaagaaatag acgtatttct agaagtaagg 120
 ttgaagtaca tacctatctt acagtgaggt tcttttttct ttcagagtga atatgatgg 180
 cattggagta atggaatagt tattgacaga gaggaagag aaacagtagt tgtgtaattc 240
 ctgcagtgga agaaaaacaa taatgtaagt gtatgctcta aaaatgaaga gaaaactgca 300
 caacctaacc cagtttatat gaaactataa ctctgcaatg tgtcacttcg atccttagat 360
 atcctttaag ttgggaacaa atagttttg 389

<210> 52146
 <211> 409
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-003-Q1-K1-G2

 <400> 52146

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 ctgggtagct gtccccctcg cctcatccc tctcgggcgc cgctgccggc ccgcctcccc 120
 cctcgtgccg ctctgccgcg gcgcattccg cggccgcctc gccaccgaat cgggcggaat 180
 ctcagcggga ccaaaatggg gtcgccgggt gcggggagca gcggcgcca cgagtgtctc 240
 ttcaagatcc tgctcatcgg ggactcgggc gtcggcaaga gcagcctnct cgtcagcttc 300
 gtcgccgcct tccacctcga cggcgacatc gccccacca tcggtgtgga ttttaaaatc 360
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<210> 52147
 <211> 436

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-003-Q1-K1-F1

 <400> 52147

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 gacgagcaca ggcggtggca ggcggcagc ggcgtgcgat cccaagccgc tgggtggtgtg 180
 cgatccggcg ttcattggacg gagcgaaacc cgcggcagca tgctgctcca ccctgcgtgc 240
 gcaggaggca tgcttggtgcg tgtacgcaa agacccaag ttgcaaaat acatcaacaa 300
 ccccaacacc ggcaaacct ttacctcgtg cggcatagcc atcccaaat gctaagcaag 360
 cgctctgcgt cgctcgttcg ctagctcttg ctctcngtg taacatatnc agcttatgaa 420
 ntaaatatgt ggatca 436

<210> 52148
 <211> 463
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-003-Q1-K1-D6

 <400> 52148

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 acctggtatt tctagtcaac ctggtaatat catccaccga agggagccta gtgggaagtt 120
 gtataattat gctgcagctt ctaaaggggc caaggttctg gatttcaata aggaggctaa 180
 ggggtgcttc aacatcttag ataaagacaa agacaagtac ctccgcaatc cttgctcagc 240
 agaggggaag ttgtcatca tagagcttgc tgaagaaacc ttagtagata caatcgcaat 300
 tgcaaatatt gagcattatt cttctaattc aaaagaattt gaactgctga gcagtctgac 360
 atatccaca gaaaactggg aaactcttgg aagattcact gccgcgaatg caaaacttgc 420
 tcaaatattc acttntcttg aaccaaagtg ggctagatat ttg 463

<210> 52149
 <211> 455

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-003-Q1-K1-D7

 <400> 52149

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 cgccgcgcgc gccgcgcgcc tatcccgggtc cttcaggcga accagggttg tcatggcctt 120
 caacaagatc aaggtctcca accccgctgt cgagatggac ggcgatgaga tgaccagggg 180
 gttctggaaa tctatcaagg acaagcttat attccctttc gtagacctcg acatcaaata 240
 ttttgacctc gggcttccac accgtgatgc taccgacgac aaagtcacag tggagggtgc 300
 ggagggcaca ctcaagtaca atgtggctat caagtgtgcc accattacac cagatgaagc 360
 angggtaaat gagtttggt tgaaggctat gtggaagagc ccaaattggca caattaggaa 420
 tattctgaat ggcactgtgt tcagagaacc aatca 455

<210> 52150
 <211> 464
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-003-Q1-K1-D8

 <400> 52150

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 atgcgctact tagaagcatt gctagacaga ggatcgaaag atgggttagt actgattaaa 120
 aaatggctta ttgaagcctt gcagcatggg aagctaacat ctgcatccaa aggttggcaa 180
 ggagccactt ctgtttcaga gattcgatct atggtgcaaa tgctttcccg agaccagttg 240
 tcattgttaa aaaacagggg tgttatccag ttagcactag ctgctgaaat gactctacgg 300
 gagcctcaaa gttctcgctg ggacgccttt acaagtgccg agagaatatt aagtgtgaca 360
 tctgcagaga cacctcaaag tcttgccagt gagcttcgtg atttcatcaa cactagcact 420
 ttagttgaat cacacacaca aactacttca atggagtctt caca 464

<210> 52151
 <211> 393
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-D9

<400> 52151

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gggtgagctg cggttgagc tggacgagct gcggcggctg gagagcctcg ccaagcaccc 120
ccgcgtccag atcctcctcg ccaacgaaat ccgcaacgtt gaagcgaagt tggcgaaggc 180
aaccgaacca tcgcctgagc cactggcggc ggcttctgcg ccagcgcccg cgcccgtgc 240
gcgtcctgtt ttaagctacg tcaactcttg gtcgttcagc tgggagcagg acaacgagaa 300
gattaggata tatgtttccc ttgagggagt tgagcaagag aaggtggaga ctactttcaa 360
gccaacatca gtggatataa agtttcatga tgt 393

<210> 52152

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-E1

<400> 52152

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tcctttgttg caaacgctaa atttctcacg aattcttccg tcgtcggcgg cgcagattga 120
atgccaaaac cctagctcgc cctccccaat tccccatttc ggccacaccc tccttgccctc 180
cacggctcca ccctgcttc aggttacctg tgccagcgac gccggtagaa gccatggaca 240
gctctctcgc gagcgcggcg gcgatagccg atcagcgcca gacgatcgag cagtaccggc 300
acatcctcgc ctacgtcctc tcgtcttccc caccggacat ctctcaggcc aagcgcttgc 360
tcgaccacat ggtttcggac gaagttccgc tcgtggtgtc gcgtcaattg ctccagacgt 420
tcgcgcagga ccctaggaag ctggagtcgg a 451

<210> 52153

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-E10

<400> 52153

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tacaagtctg acattaacat tgtctccaat gctagctgca caaccaactg ccttgctcct 180
cttgctaagg tcatcaatga caagttcggt atcgttgagg gtctgatgac cactgtccat 240
gccatcactg ctaccagaa gactgttgat gggccctcat ctaaggactg gaggggtgga 300
agggctgcta gtttcaacat cattcccagc agcactggag ctgctaaggc tgttggcaaa 360
gtgcttct 369

<210> 52154

<211> 145

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-E11

<400> 52154

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tgggtataac agccgcgggc agggatatagg ccaccatggt ctggccaccg caggtgacca 120
ggttcgccc cctgaccacc tacac 145

<210> 52155

<211> 266

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-E12

<400> 52155

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ccacacggaa ttagatatct gtggtgcact gattttgggc taacgacccg atttctatct 120
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaa aagagcataa aaagaaataa caattataat aagcgtcacc taaaatcaaa 240
tcaatggcca ataaaatata acaaat 266

<210> 52156

<211> 417
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-003-Q1-K1-E4

 <400> 52156

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 ggggtgcacg cctcgccggc tcaccaatcg acaccctgtc caaccagcac caccggcggt 120
 cgtcctccct ggcggggggt taggctagct agagctgtac agcgcgagag cgacgaacgg 180
 caggtcgacg ggcggtcgca cgtacgtcgt cgaccgagag cagagcaggc gaccggcgcg 240
 ccagagatag ttcgaatccg attccgaccc atccatgggg gtccacctgc tgaagaagca 300
 gcactcgtcg gcgccgtcgt cgctggggcg cggctccggc tccgggtccg catccgggtc 360
 gtcgggtgtcg gcgtcgtcga tgccgcccga ggggtgcatg gcggtgcgcg tgggtggg 417

<210> 52157
 <211> 460
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-003-Q1-K1-E6

 <400> 52157

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 gcggagcaag atgtcgtggc aggcgtacgt cgacgagcac ctgatgtgcg agatcgaagg 120
 acagcatctc agcgccgcgc ccatcgtcgg tcacgacggc agcgtttggg cgcagtcgga 180
 gagcttcccc gagttaaagc ctgaggaggt tgctggtatc ataaaggact ttgatgaacc 240
 tgggtactctt gcaccaactg gtcttttcgt tggaggtaca aagtacatgg tgatccaagg 300
 tgaacctgga gttgtcatcc gaggaagaa gggcactggg ggcattacta tcaagaaaac 360
 cggcatgtcc ttgattattg gtgtctacga cgagccaatg actccagggc aatgcaacat 420
 ggtggtggaa aggctcggcg attacctgat cgagcagggc 460

<210> 52158
 <211> 456
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-003-Q1-K1-E7

<400> 52158

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attgcaaatt ttgcaaatg tgaatctaga gcagctactc aaggaaataa ggtgggaaaa 180
tcactattaa tcgacgatgg atcgctccct tggattgtaa aaaatgcca taacgaagct 240
gccccaatga ggcggcacat agagctcgca ctgtgtcatt tggcacagca tgaagtaa 300
tcgaacgaca ttatcaatga aggagcccta tgggagcttg tacggatttc aagggactgt 360
tctcgagaag atataaggaa gttggcatac cggacactga catccagccc cactcttcaa 420
gccgagatga ngagactggg aataaaactg tgatga 456

<210> 52159
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-E8

<400> 52159

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tattgctgcc gggttgcat gtggtagtga aagcttcctc ttgatgtttg ccagatggag 120
aaaacttgag agggatttat acaatgaaag aaaggaccgt tttgacatta cacagatccc 180
agatgtatat gattcctgca agtatgacct tttgcataat gctcatctca atcttaaggg 240
tttgggaagag ctattcaaag ttgctcaaat actcgctgat ggtgttattc caaatgagta 300
tgggatcaac ccaaagcaaa aactgaaaat cggctcaaag atagcgcgcc gtttattggg 360
aaaaatccta atcgatctac gcaacactcg tgaagaagct atcagtg 407

<210> 52160
<211> 424
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-003-Q1-K1-E9

<400> 52160

gttgcgtag catcatcagt gcggcggtgg ccaccatctg gagctgggct cttcgtggtc 60

ctcaagggttc cggctgccga tgatgatgtc gtacgcgccg cagaacgagc acttgctgca 120

ggaacagaca ctgaacaacg ctcggtccggc tcctgagaag aggcagcggg ttccgtcggc 180

gtataacaga ttcatcaagg aagagattcg caggatcaag gcgaacaacc cgcacattag 240

ccacagggaa gccttcagca cagcagccaa gaactgggca cattatccga acatccattt 300

cggcttaaac tccggccgag aggggtggcaa gaataagctc gtggacgagg ctgtcgcggc 360

ggtggcngtg gcttcgaaga agatccaagg tttctactga tcgatgccgg tcgatcgagg 420

gatc 424

<210> 52161

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-D4

<400> 52161

gtcatgcgtc tgggcgctat ggactcagtt cagacgtccc gaggttacag ctacaacggg 60

ccgctgtaca ggctcgacag tacgagcttc accacgcgag aggacctaac tgaagcgggc 120

tccacgacgt tcgacggact ggcgtgaccg gacacttatg cacagtgctt tacatgctgg 180

caaaatcaac ctgcacacca ctgacgctgg tggaacatgg ccaccggcca caccatcagg 240

ctgctccatt gaccgagctt cgagagccgc ctggtgccgt accaggaccc gtccctgaac 300

gagaccttgc tcgggcacct gagccggaac tgcccgcaca aggtcaccta cctgcggacg 360

ccgaatgaca tgcacacgca cgtcgccttc tacaacaagt actacgacca cctggtgaac 420

cacgacgggc tcttc 435

<210> 52162

<211> 365

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-B9

<400> 52162

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gtggccggca cgcgcatcta cgtgcaggaa gggatctacg acgagttcgt gaagaaggcc 120
gccgagctcg ccagcaagtc cgtggtcgga gaccggttca acccgagtgt cagccaaggc 180
ccccaggttg acaaggacca gtacgagaag gtcctcaggt acattgacat cgggaagcgc 240
gaaggcgcca cgctggtcac cggagggaag ccctgcgggc acaagggcta ctacatcgag 300
cccaccatct tcacggacgt caaggacgac atgacgatcg cacaggatga aaatctttgg 360
ccgtg 365

<210> 52163
<211> 232
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-C1

<400> 52163
aaaaaaaa aataattaa aaaaaaattt tttaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
ggggcttatt ataaaacatc tgacctatt aaatacacca aaataacatc ttattttctt 120
tttatagtcc cctctaatta actctctctt catcaatttt caccacctta acttttaaaa 180
cactttaatt cccaaccttt tactcttcta aaaccatatt cctttcaccc ct 232

<210> 52164
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-C10

<400> 52164
gctggcttct cctccccctc ttaccaagtc cttctcgggt tagggttcct tagggttgtg 60
tggaggggcg atggcgggcg ctgatgtgga gtaccgttgc ttcgtcggcg ggcttgccctg 120
ggccaccagc aacgagtcgc tggagaatgc cttcgccctc tacggcgaga tctcgcactc 180
caaggatcat accgaccggg agacggggag gtcccgcggc ttcggcttcg ttaccttctc 240
ctccgagaac tccatgctcg acgctatcga gaacatgaac ggcaaggagc tcgacggccg 300
taacatcacc gtaaccagg ccagtcctcg tggcggtggc ggtggcgggc gtggctactg 360

cggtgtcgc ggcggcgcg

380

<210> 52165

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-C11

<400> 52165

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gagcaaggac gtgggcaagg gttccgctg catccgatg gtcaacaaca cccgcctcaa 120

cttcgacgcc ttccacggcg acaaggacca cggcggcgtg cagcagga ccccgctcgt 180

gctctgggag tgggtgcaagg gcgagaacca gagctggaag atcctgccgt ggggtcccga 240

ggccaactcc tccgcggccc acgcgggagg cccgcacgcc gtgcgcgtct tctgcaaagc 300

cggcggcgag gactacagcc tcacggtgcg caacggcacg gcgtgcctgg cggccaccaa 360

cccgcgggac gattaccagc actgggtcaa ggacatgcg cac 403

<210> 52166

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-C12

<400> 52166

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gcgactgcat gtcccctaac gtggagaccg ccgcccag cagcatcaag accacggtcc 120

tcgcccgcgc gaccaccaag gccagcgcg cgggcttcga ggcggccacc gagggcggcg 180

gctgcgactg caacacctgc aactgcggca ccagctgcgg ctgctcctgc tgcagctgca 240

actgagccgg tcaggcgatg gcgcacgaga gtcgagagga cgacgacgag tcgtataaat 300

ataatagcgg cgtctaaata agatcctgtc aactgcaccc ggcattatcg atccatggtc 360

gctcctgggg ttcatgttca tct 383

<210> 52167

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-C2

<400> 52167

gaaacgtgta agcagcacca ttttctttaa ttctggatct gatgatggat atgtcgggag 60
tgctgcacca tttcctggga ggatactgcc ggtagatcta acaaacttta gtggagaact 120
tctttgccag gcagatgctt ttctatgttc ggtcaatgat gtctccgtct ctagtacagt 180
tgagccaagg ccacggaata ttgagattgg tgcagagatg atccttaaac aaaaacttag 240
gggccagggg atggcttttc ttgttggtgg tggatcagtc atgcagaaaa tccttgctcc 300
tagagagggtg ataactgttg atgctgcttg tattgtggct atgtcggcca ccattaactt 360
ccagttgaag agccctaacc agcttagaag agcagttttt gggggtgata accagctaac 420
ag 422

<210> 52168

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-C3

<400> 52168

ctgggtcaga tgatgatgat gacgatgaat acgatgaaga tgaagatgaa gatgatggtg 60
atgatgatga tgatgatgat gaggtggtg acgacgacga tgaagacgat gatgatgaag 120
aggggggtga tgaagatgat gatcctgagg ctaatggtga aggggggagt gatgatgacg 180
acgatgataa cgatggtgat gatgatggtg acgatgatga cgacgatgaa gatgatgacg 240
aagatgaaga tgaagaggat gacgacgatg aggaagaaca gccaccttcc aagaagaaga 300
agtgatttgc tctttcatgg attcacctca gcttctccat gctgttagtt gtgttggtta 360
gatcatggaa cagctttggg acaaatgttg cttgtcatgg tattatagtg taggaaacct 420
tgacatctga tgttaaaatc g 441

<210> 52169

<211> 467

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-003-Q1-K1-C4

<400> 52169

cccacgcgtc cgccgtctcc acgccgcgtt ctcccgcacg aatccgcgct cgggccaacg 60
ggcgcaagcc ctagccaccc ccgcccattc atggtggggc ggccgtgaga tctctaggga 120
ggcttgtcgg cttcgtcggg cgggagggga ggagatgggc gcccggaaca gcgctgccgc 180
cacgccggtg ctgctcaacg tgtacgacct tacggccgcy aacgattacc tctactggct 240
cggcttcggc gtcttccact ccggaatcga agtccatggc acggaatatg ggtttggagc 300
ccacgactac ccattccagt gtgtgtttga ggtggaatca aagagttgcc ctggctttat 360
ctacagaaga acagtgtggc taggcacaac agacatgtct caggaagaat tccgctcgtt 420
tattggaaaa cttgcanngt gatatcatgg cgacacatat catttaa 467

<210> 52170
<211> 217
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-C5

<400> 52170

gtagaatctg tctaaacagc taaggttttt actcgctgt atgctagcgg tgcattgagag 60
cgcatattatg ttcttgatgt aataaccat catacttcag tcttcatcta ttgccatttg 120
cttgataaaa aattggctat acatagctc catggaatga agtctctaca tgactatcac 180
tctgtatcga ttggttgtag acttgtggc attatca 217

<210> 52171
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-C6

<400> 52171

gtcatcttca aacgacgata atggctggga tggcttccag tctgcacaac cagtacctag 60
ttcagagaaa aaagattctg ccaaaccagc agaaagcaag acccagtcta catctggaat 120
ggaagactta tttaaagact caccagctgt gccattatcc tcagctccag ctgtttccca 180

agtaaacgct aagaatgata tcatgagttt gtttgagaag tccaatatgg tatcaccttt 240
 cgctgcccac caacagcagc tggcgctcat gtctcagcag caagctcttc taatggctgc 300
 tctcaaagct ggaaatgcac cacaaatgat gattccaggg actgccaatc agctaaatgc 360
 taacggaacc ttgcctttcc aaaactggac aaatctttat caaaatcctg ggtcgactcc 420
 agcagcagca cagaatggtg 440

<210> 52172
 <211> 361
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-C9

<400> 52172
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 tggttatattt gagaagttat atattgtata tacagagaga tgcagctgtg tattatttgc 120
 tgtagcttcg attgcgagac gcatgggttc agtcatttta ttgtagttag tttatatgat 180
 acgtcgttgt caccgcatga agattaactg ctgtgccata tgaagacctc ctgcctcatc 240
 acggtggttg tatataagat caactgcagt gcctacacgg tggacggagt atttgtatga 300
 tgtgaaggtc actattcagc atcgtcagta tgaaatggct atggccttca aagcttaaaa 360
 a 361

<210> 52173
 <211> 411
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-D1

<400> 52173
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 aggatatctg cttggacatt tcttccacca gagaatgggtg aagccattca gatattacac 120
 taccagaatg gtgagaaata tgaacccac tacgactact tccatgacaa aaataatcag 180
 gccctgggag gccatcgcat tgccactgtg ctgatgtacc tatcaaatgt cgagaagggt 240
 ggagagacca tcttcccaaa tgcagagggg aagctattgc aacccaagga cgacacttgg 300

tctgattgtg caagaaacgg atatgcagtt aaaccggtaa agggatgatgc cctgctgttc 360

ttcagttctcc accctgattc aacaacagac tctgacagct tgcacggtag c 411

<210> 52174

<211> 307

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-003-Q1-K1-D11

<400> 52174

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gtagttaaac aacacatctt gctggaacgc agaagataga acatacagga agaaaatatg 120

tattcgtgcc ccgactccat atgaccatat ataagtaaac actgtttgat gtaaatcaaa 180

gattcagctg tctatgggag ctgttctagt gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240

aaaaaaaaaa aaaaaaacia ataaaaaaaaa aaaaaaiaaaa aaaaaaiaata ggacaaaaat 300

acataat 307

<210> 52175

<211> 155

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-D12

<400> 52175

aaaaaaaaaa aaaaaaaaaa aaaaaattat aatttaaaaa aaaaaaaaaa aaaaaaaaag 60

aaaagggttaa ataaaaaaaa aaacaaaaaca aaacaaaaat aaaaaaaaaa aaacataatc 120

ttgtccattt tcatgtctcc caccttcctt cccct 155

<210> 52176

<211> 450

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-003-Q1-K1-D2

<400> 52176

gctgtatgag tacttaggag aggagtatcc tgaggtgctt ggttcaattc ttggagcctt 60
gaaggctatc gtcaatgtca ttggtatgac taaaatgact ccaccaatca aggatcttct 120
tcctcgtctg acccccatc ttaagaacag gcatgagaag gtccaagaga actgcattga 180
tcttgttggt aggattgctg atcgtggagc agaatttgtg ccagcaaggg aatggatgag 240
gatttgtttt gagctgctcg aaatgttgaa ggctcataag aagggtatta ggagagcaac 300
tgtgaacaca tttggttata tcgcaaaggc tataaggcca caggatgtgt tggccaccct 360
gttgaataac tngaangtgc aagaacgaca gaaaccggtc tgtacaactg tagctatngc 420
tatangtgct gaaacttgct cacctttcac 450

<210> 52177
<211> 408
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-003-Q1-K1-B8
<400> 52177

acggcgagag acataaaacc agaaggatca caaccgcgcc ataaagccag aaggtatcgc 60
agttgcgcca tattgtacag ccgccatagt acttcccccc tccttgcccc taaatccagc 120
cagggttttc ctctccctc ctgggtagcc gtggccgcct gtagtcctc cctcgtgtaa 180
ttagaaccgt gtaccgagtc gagttcattt acccactgtt tgaggttcca gagagttgag 240
atttaaattt taagtggcgc cattgccctt cctttcttcc tccccctcta agtattaact 300
ttgttgccgc cattgttgct gtgactctgg ccatagatcc ttttatgtac atgcgaaatg 360
taaccaaggg atatggaata agaacatggt catcctgttg tagacaaa 408

<210> 52178
<211> 458
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-003-Q1-K1-D3
<400> 52178

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atgggagggc tgtgtcggag gtgctgcctt cctgaaacaa ttctaagatc tatgcaggca 120

tgtatcgcac tctccgcggc tggatgatgat ctagattact ctctagataa atgtgacgaa 180
 cttgttgagt tagttgggtc agccgagtct ggaatgatgc atttgttcag ccagcagcag 240
 ttgcaggagt tcttgatttt cgagagggaa tatctcatat gtacaatgga gtttgaggag 300
 gaccgggttc cttgtgatgg ctaagctttt tccccacttg ctgactaatc catgagacat 360
 gaccggcatg tgcattttgt ggcgccgtga cccaagaacc tgctgtgatg tatcgctaca 420
 ccatttcaaa agcgaaagat ggaatttagt gcgtaacg 458

<210> 52179
 <211> 339
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-A3

<400> 52179

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 tgctacagct tctattggat gatgacattc tggattcgca tactgcatac tacgaagccg 180
 gcggctagaa tgtctaaact catgtactat gagacgcagc agagaatgag atacttgttg 240
 tacaacttca aggaccacca gaactgctgc tcgatctacg cttggaagga gatcaaggac 300
 tgcagctggt gcgactacag agttaagcac aaaggggtgc 339

<210> 52180
 <211> 447
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-A4

<400> 52180

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 caaggtgcaa gtacgctgct cgcaaaaaca agccagagct gttgagggaa ggaaacctcg 120
 aggaggcagc aatggtggat gtttgatcg aggtggaggc taaccagtac accgctgcac 180
 tgaatcccat cctcttccag gtcctcatca gtcctatgct tgggggaacc accgaccaga 240
 aagttgtgga tgagaacctt gagaagctga agaaggtgct agaggtgtac gaggcacgcc 300

tgaccaagtg caagtacctt gctggagact tctcagcct cgccgacctg aacctatgtgt 360
 ctgtcactct ctgcctgttc gctacgccct acgcattctgt gctcgacgcc taccgcgatg 420
 tgaaggcctg gtggtctggt ctgatgg 447

<210> 52181
 <211> 452
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-003-Q1-K1-A5

<400> 52181

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 gcgtcgagct ctacgccgag aaggtcgtca accgcggcct ctgcgccatc gcgcaggctg 120
 agtccctccg ctacaagctc ctccgaggcc ttgccgtccg gagggcctgc tatggtgttc 180
 ttgcgtttgt tatggagagt ggtgccaaagg gttgtgaggt cattgtgagt ggaaagctca 240
 gggctcaaag agccaagtcc atgaagttca aggatggcta catgatctca tctggtcagc 300
 cagtgaatga gtacatcgac tcagctgtga gacacgtnc tctcagacag ggtgttctgg 360
 gtatcaaggt gaagatcatg cttgactggg acccgaaagg gcaggttggc ccgatcacc 420
 ctcttccgga cctggtgacc atccataccc cg 452

<210> 52182
 <211> 444
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-A7

<400> 52182

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 gaaaacacgg gcccattcaa gcgtcagag ttccattaca tggatcagc gactttgctt 120
 tactgtgatg ttcaactccg gataaaaacg tctcagttga acacagacac ccacaaaaag 180
 tcataggata cagagtgtgc ttcacgtaat tacatccatg agctggatgc ctctcgtgcc 240
 cgggctcgga cgtgttcagc tggacgcgac gaagccgatg ctgaaccgga acgagatgca 300

gctcagctcc tcgttgctgt ccccgacaat cttcatgtag atcgtgtagg agccccggcgg 360
 agtgaagcct ggcagcgtct gctggtggga cagcacgaag tcgccgggtcg ctgggcagga 420
 agtctctccg cagatgtcgc ggg 444

<210> 52183
 <211> 459
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-003-Q1-K1-A8

<400> 52183

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 cccacccagg ggcggatctc cccccggggc tgccctggggt gcagcccctg tcggcagtcg 120
 cggcccagtc catcatcgcg cgacatgacc tagcagtagc agcagacgtc ctacgtccag 180
 ccccagccgc cgccgtttgg ctcttgcgtt cgatctcgct gcgtcctggt cctgcgccct 240
 gcggtccagc ctctctctcca agactccact tctccagcgc gctcgcccgcc gccagccgcc 300
 aggccgncac cggccaccgn cattggcccc accatttgcc gctcccgctt acgatgccga 360
 cgagtgaggt gtggagctgg tccgattttg aaatcagcaa gtacatcgct ganggcaggt 420
 tcggcagggt ctacctcgcc cgcgagaagc agagcgggt 459

<210> 52184
 <211> 375
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-A9

<400> 52184

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 accacgacca aacctcgtag taccgatac cccggaccgg gagaaagcaa aaggccaacc 120
 ttcgtctaca gatggcagca gtttgcaaga tgcggtagag aagccagatg cgtcgaagaa 180
 gacgaagaaa ggctctgatg taagatcagc cctcaccgtt gcctttgcc aagtattcgga 240
 gaagatccgc agtcagggcc gcgatgcgcc aaacgaggcc ggtgagagta ctggcggctc 300
 gaccgtggaa gctgagaggg cgggagacta gatttagctg taggatgggt aacggtgctt 360

gagtaatgct agttt

375

<210> 52185

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-B1

<400> 52185

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gctgatgcta tcgatgacga gatcagtgtc aaggacggtc tgatgaccac tgtgcatacc 120

attactgata ccagactac tgccgatagg acctcatata aggactgaac taatgacagg 180

actgctagaa ggaacattat tcccaacatc actggcactg ctaatgctgc tggcaaagcg 240

cttgctgtac tgaacggtga gcttaccgga atgtcgactc gagtgccaac cggcgatcga 300

accgtcgatg attctactgt taagcttgca gagtcaccag cctatgatga gatcaatgat 360

ga 362

<210> 52186

<211> 368

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-B10

<400> 52186

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acgccccgcc gcggctggac gaggcagatc gcacgctcta ctccaccttc tgcggcgccg 120

ccaactccct ctcccagctc tacgcgcagg ccatggccca gcagaagctc aacttccatg 180

ccggcgagcg ccacgcctta gaaaagctct accagtggat cttgaggaag cacgatgaag 240

aggctaggct cactgtggct gaaataatgt ctcatatcca gcatgagata gactatgtag 300

gtactgatgc acatgtctcc ccaagagtac ctacgcatcc tcagattgca aatccattcg 360

ccaattca 368

<210> 52187

<211> 388

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-003-Q1-K1-B11

 <400> 52187

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 acatcttcta catcactggt gagagcaaga aggctgtgga gaactccccg ttccttgaga 120
 agctgaagaa gaggggctat gaggtgctgt tcatggtgga tgccattgac gagtattcta 180
 ttggacagct gaaggagttt gagggcaaga agctcgtctc tgccaccaag gagggcctga 240
 agctggacga gagtgaggat gagaagaagc gcaaggagga gctcaaggag aagtttgagg 300
 gcctctngca ggtcatcaag gaggtgctgg gcgacagggtg gagaagggtg tgggtctccga 360
 ccgcgtggtg gactccccct gctgcctg 388

<210> 52188
 <211> 375
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-003-Q1-K1-B12

 <400> 52188

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 tgcctcttcg ttctctctc cgggctatca ggacgaaata actggccgcg ctgcacgccg 180
 gccgcctcga gaagaagcgc tcgccccgcg cgcgcggctc cgggctacca ggacgaaata 240
 actggccgcg ctgcacgccg gccgccgca gaagaagcgc tcgccccgcg cgctctgccg 300
 ctggttcggc cgtgccatcc cgacgaggtt cccccagctg tgcccgcctc atctccttcc 360
 gcgcgcacgc gcacg 375

<210> 52189
 <211> 463
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-003-Q1-K1-B2

<400> 52189

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gcgggctatg aagaaagctg aagctgcggg caatgataac tgtcctgtga agattaagct 120
agttgctcct ccactttatg ttttgaccac acagaccctt gacaaggatc aaggcatttc 180
agttctcact actgcagtca aggcttgtag agcagagatt gaaaagtaca aaggaaagtt 240
agtagtgaag gaaccaccaa gagctgttag tgagcgggaa gacaagctat tcctcgacca 300
gattgattcc ctaatggagc aaaacgcaga ggtcgatggg gatgctgaca gtgaagagga 360
ggaagatata ggaatggggg acgtcgacat taaaattct tgcgtcgctg cttactaagg 420
ctacactggg tgatttggat gagctttgct gtacagcacc agc 463

<210> 52190

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-B3

<400> 52190

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ggccagcatg tactcggcaa tgctcttgac tggctgggtca acttcgggtg gtgagagcgg 120
aaagcttgtg gatgttgggt ggccatctgt ctgggtcagg attgcaacc agtgggcgac 180
ggcaggctctg ttcatatggg cgcttggtgc accgctctc tttcccgaca ggaattcta 240
agttcaacca cggtaaagcct ggagcatcaa acgtgtctac tgtggtagct aatatacct 300
atcaagtatg ttgcctttaa aacatgctcc gagtcgggtg ttgccactg ttatcaagtt 360
tgttactta ataacatgtg actttaggca ttgtgccact atcttaacag tgaacgtgtg 420
ctgcttgat tgtgtatata ctggagaatt taagaatgc 459

<210> 52191

<211> 232

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-B4

<400> 52191

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 agggaggatt ttcattgggac ccactgtaga tttctaattgc cactgcactg ggctacctga 120
 ggcagcgcac cttgagctta gcgatattgc atatgtttgt taaaattggg atatcaagtt 180
 gctggtgcaa aggttttttc tgaaatatat attgatcttg tgttggattg gt 232

<210> 52192

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-G6

<400> 52192

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 gccgcagctg cctgctcgcc attactgcaa gctgtgttca atcaaagctt aattaggctc 120
 cctctacatc tgatccagct aagtagctag ccagcactac agaagggcgt ggcaagaatc 180
 aggagagaga tagcaggggg gctagctagc tgagctcgtg cgacgaagaa tggccggaat 240
 tggcaggaac atggtggcgc cgctcctggt gctcaacctc atcatgtaca tcatcgatc 300
 cggcttcgcg agctggaacc tgaaccactt catcaacggg cagaccaact accccggcgt 360
 ggccggcaac ggcgcgacgt tctacttcct g 391

<210> 52193

<211> 383

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-002-Q1-K1-G8

<400> 52193

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 cgcaggcatg gaggggaagg aggaggacgt ccgcctgggc gccacaagt tctcggagcg 120
 ccagcccatc ggcacggcgg cgcaaggcac ggacgacaag gactacaagg agccccgcc 180
 ggcgccgctc ttcgagcccg gggagctcaa gtcttggtcc ttctaccgcg ccggcatcgc 240
 cgagttcgtc gccaccttc tcttcctcta catctccatc ctcaccgtca tgggcgtctc 300
 caagtccacc tncaagtgcg ccaccgtcgg catccagggc atcgctggt ccttcggcgg 360

catgatcttc gccctcgtct act

383

<210> 52194

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-G9

<400> 52194

aaccaaataa ctaactaaat atataactat aactaaacta aaatgaataa aagaaaggga 60

caacacaagc atgagaagga aaagaagaag acataacaac tgagcgccaa caagttctcg 120

gaagcgccag cccatcgga cggcgccgca aggcacggac gacaaggact acaaggagcc 180

cccgtcggag ccgtctctcg agcccgccga gctcaagtc tgatccttct accgcgccg 240

catcgccgag ttggtcgaca cttctctctt actctacatc tccataactca ccgtcatggg 300

cgtctccaag tccacctcca agttctccac cgtctgcac caaggcatcg gctgttcctt 360

cggcgccatg atct 374

<210> 52195

<211> 450

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-002-Q1-K1-H1

<400> 52195

agccccacca gctctgctca gccaccacca tctctctctt cctcgaacgg tcgagcggcc 60

ggaagcacgc accccgccgc cgcgtaccct cccctcaccg gctttctatc gccggccgcc 120

gttctgcgcg acgcggattc gaatccggaa agcgggcat gggggcgaag cgcgcggtgc 180

tggtgggcat caattaccag ggcaccaaag cggagctcaa gggctgccac aacgacgtcg 240

ctcgcatgcg ccggtgccta cgcgaccgct tcggattcga cgagtccggc atccgcgtgc 300

tcatagatga cggctccgcg ccgcagccca cgggggcca catccggcgg gaactcgcgc 360

gcctcgtcgg ggacgcgcgg ccccgtagacc tncctctttt cactacagcg ggcacggcat 420

acggctgccc cgcgagaccg ggaatgacga 450

<210> 52196
<211> 358
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-H10

<400> 52196

cccacgcgtc cgctcagagg tgggttggt tctcctcccc caccggttcg tgttcggggtt 60
ctgggttcgtg ggcgagaggg aagagatggc ggcgtcggac gttgagtacc gttgcttcgt 120
tggcggcctc gcctgggcca ccgacgacca ctccctcaac aacgccttca gcacctacgg 180
cgaggtcctc gagtccaaga tcctcctgga tcgggagacg cagaggtccc gcggttcctg 240
cttcgtcacc ttctccacgg aggacgcgat gcgcagcgcc atcgagggca tgaacggcaa 300
ggagctcgac ggccgcaaca tcaccgttaa cgaggcccag tcccgcggcg gccgttga 358

<210> 52197
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-H11

<400> 52197

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ggaacaaatc accaccacca caccagcaat cgcaagactc cttcgagccg gaggcatatc 120
gggtgaaatg gaacaaatca ccaccaccac accagcaatc gcaagactcc tttgagccga 180
aggcatattg ggtgggatgg aagaaacatg cgcaaggagc aacggacgtt gctgatgaga 240
caacgccagc acgtggatcat ggtctgcatg tcgcgaccgg gatgctcttc acgaggaaga 300
gcttgcttcc agggacagcc ctaccggaag gtaccaagtt ctgcggccac ggcttcctcg 360
atcccagagag gtttgaacta 380

<210> 52198
<211> 243
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-H2

<400> 52198

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aggaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaaa aaaaaaaaaa aaacaaaaaa taaaataaaa taaaaaaaaa ataaaaaaat 180

gaaacaccat aataaaaatt attttaaacc caaaaaactc aattgctaga aattctaact 240

ggc 243

<210> 52199

<211> 442

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-002-Q1-K1-H4

<400> 52199

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gctccttggg ttttctgcaa gtgctgtac ggcgaccatt ttcccgaat gctcgcaagc 120

tcctatagct tcccttcttc ccccgtaact ctcaccagcg gtgtcttcgg tatgtgaaaa 180

ccaattctt caaccctaca ggatccaaca ggcaatcaca gctggcatct tacctttatc 240

acccttggtc ctccaacaat catcagccct attacatcag ttacctttgg tgcatttatt 300

ggcacaaaac atcagggcac aacaactaca acaacttggt ctagcaaacc ttgctgccta 360

ctctcagcaa cagcagtttc ttccattcaa ccaactagct gcattgaact ctgcttctta 420

tttgcaacaa ncacaactac ca 442

<210> 52200

<211> 177

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-H5

<400> 52200

aaaaaaaaaa aaaaataaaa aaaaaaaaaa taaaaaaaaa aaaaaaaaaa aagaaagaaa 60

aaataaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaattaaaaa aaaaaaaaaa 120

atttaaattt aaaaaatttt tatttaatat aaaaaaaaaa aaaaacaaaa aaataaa 177

<210> 52201
<211> 361
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-002-Q1-K1-H6

<400> 52201

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gcaaggaggc aacgcgatac ctgtaggcgg cctcgttgag acgttgctcc tatcgtggag 120
gtcttcctct cgaccagca gccgtagccc agctgtagcc caactcagat ctctgctgta 180
acgtcatcca ataggctaag gagttccttg gtgcttcggg tgacaagcga aaggaagtca 240
tctgcagtat ggaggaggca gataagctca gtggttctgc tgcaaggcta aggagttcct 300
tggtgcttcc ggtgattctc tntctgttgt aaagcagcta tctgcgagt gcctctacac 360
a 361

<210> 52202
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-H8

<400> 52202

ctctcgcca gtcgcctcgt ctctccctgc cgcgtcgctt ccagttccgc ctccggcgcg 60
cctccgcct ccgccgcgcc tgacgaacgc agtataggac tgtgcaggta gagaggagga 120
gggtccggcg agatggggat gcgagataag aagcggaacc agaagcgagt gtcgcgcgcg 180
cgtaccgcgg caccgcgccc aggcgagggc aaggatttcc tgccgctgga aggaggcccc 240
ggtaagaagc atctgaaggt gcagcagcct gaagagcccc aaaacacagc cacaatcgtc 300
tacattgggc atatccccca tggtttctac gaggacgaga tgaaagggtt cttaagcag 360
tttggggata ttaagagggc taggatcgct cgtaaccg 398

<210> 52203
<211> 376
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-H9

<400> 52203

cccacgcgtc cgggcacata accgtgctct agttgaggag cgtgaactgt taagcgggga 60
aatacaagct ggaaaagatg aggtccgcca cttgaatgtg atcattgctg acattaacac 120
tgagaaagaa gcttatatca gtaagcttat ggacaagagg aggaagcttg aagctgaact 180
tggagcaagt gagcacttgt gtgatgaggt caggcatctt cgtggtgaaa ttgacaagct 240
cgttaccgct cggaagaac tatctgcaga ggctgcatct ctctggaag agctgaacag 300
ggagcaatct gttaaacagc agctacctgt gctgaaaaca gaaattgatg gtcttgaca 360
ggaacttggt cacgtg 376

<210> 52204

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-A10

<400> 52204

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gtcttaggct cttagctcta ggctctagct agccgcgcca ctcttcgtg tagccatcag 120
ccttctcacc gccaccaatg gccactgccg aggtccagac cccgaccgtc gtggcgggccg 180
aggaagcgcc cgtggtggag accccgccgc cgcccgctgt gcccgaggag tctgcccccg 240
ccgaggccga ggccgaggcc gaggtgagg ctgctgctcc tgctgatccc gaggagcttc 300
ccgcggccga gcagcaggca gccgccgagc ccgaggccgc tgctcctgct ggtgccgagg 360
agcccgcggc ggccgacc 378

<210> 52205

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-A11

<400> 52205

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 ttgacacgga taaagactgg tggttttgag tgggtttcgc cagatgaaac tgatagagct 120
 ccatacagtg ctgtggaggt tgcagtgtta tcagaatctc atgacctttg tattaatggg 180
 gactgttttg aaatgctaca aagtactgag gctgttctcc aggttatccc ttatgtgaag 240
 gttttttcac gtgttgctcc agaacaaaaa gaacttgtag taactacatt caaaagtgtt 300
 gggaggggtga cactgatgtg tggagatgga accaatgatg ttggtgcact gaagcaggca 360
 catgtcggcg ttgctctttt gaatgctg 388

<210> 52206
 <211> 381
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-A12

<400> 52206

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 aggctaagcg ataccttgag gatgttattg ctcacaagca ggcaattccc ttccggagat 120
 actgtggagg tgttggtcgc accgcacaag caaagtctcg ccaactccat gggcagggtc 180
 gctggcctgt taagtcagcc aagttcatat tggatttgct gaagaatgct gagagtaacg 240
 ctgatgtgaa aagcttggac gtggacaacc tctatgtttc acacatccag gtgaaccaag 300
 cccagaagca gagggcgccg acctaccgtg ctcacagacg cattaaccct tacatgtgct 360
 gcccttgcca cattgagctg a 381

<210> 52207
 <211> 442
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-G5

<400> 52207

aacccccctt gtcgtcgctt cggttcaagc gaggaagaga gagagagcga gagtgggtaca 60
 aggggcgccg gcggccgcat tntagagtac gtcgagcttg ttcactgccg tcgcggcctc 120
 aaagcaagcc acatcatcga tggcggacgc agctcacgtc ttctgtgtgg tagcgggtggc 180

cgccgcgctc gccggccgct cagacggcgc gtggtgcgtg tgccgtccgg agctggcaga 240
cagcgcgctg caaaaggcgc tggactacgc gtgcggcgcc ggcgccgact gcaagcccat 300
cctgcagagc ggcgcctgct tcgccccgga caccgtcaag gccactgct cctacgccgt 360
caacagcttc taccagcgca acagccagaa cccgcattgc tgcgtcttct ccggcaccgt 420
cacgctcagc aacagcgacc cg 442

<210> 52208
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-F11

<400> 52208

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agcacaggcg gtggcagggc ggcagcggcg tgcgatccca agccgctggt ggtgtgcgat 120
ccggcgttca tggacggagc gaaacccgcg gcagcatgct gctccaccct gcgtgcgcag 180
gaggcatgct tgtgcgtgta cgccaaagac cccaagtgtg caaaatacat caacaacccc 240
aacaccgcca aaacctttac ctgctgcggc atagccatcc ccaaagtcta agcaagcgct 300
ctgcgtcgtc gcttcgcttg ctcttgctct tgggtgtaac atatccagct tatgaataaa 360
ttatgtggat cagttaatta gtgggatgaa aa 392

<210> 52209
<211> 358
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-F12

<400> 52209

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aagaacagaa aaccgagagc ctgatgaggc tctcctgggc gcttggtcac tctagacagc 120
ctgaagatgt caaccggggc atcggaatgc ttgaagcttc attggacagg tctagcagcc 180
cagaggaaac aagggagaag ctctacttgt tagctgttgg tcgttacaga actggggatt 240
atacaagaag ccgacagctt ttggaaagat gcttagagat ccaacatgac tggagacaag 300

ccataacttt gcaaaggctc gttgaagaaa aaaccaaag agatggtatg aatggcat 358

<210> 52210

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-F2

<400> 52210

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ggcgtgaagc gcgcggacgt gaggggcggc gtggggccgt tcgggctgtg ggtgctggcc 180

tccgccaacc gcaaggagag aaccgccgtg ttcttcaggg tgttcaagcc cgccgccggc 240

agcgacaagc ccgtggtgct catgtgcacc gaccctacca agtcgtccct gaacccgaac 300

ctgtaccgtc cgacatttgc aggatttgc gacacggaca tctcgaacgg caggatatcc 360

ctgagaagcc tgatcgaccg gtctgtcgtt gagagc 396

<210> 52211

<211> 455

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-002-Q1-K1-F3

<400> 52211

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gtccttagga agaagggcca ctcttactca gagataatta atgagagcct gatcgagtcc 180

gtggactcgt tgaaccggt catgcatgct cgcggtgtgg ccttcatggt cgataactgc 240

tccacaactg ctcgtttggg atctaggaag tgggcaccac gcttcgatta catcttgacc 300

caacaggcgt ttgtgactgt tgacaagaaa gcaccgatca accaagacct catcagcaac 360

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gacatctcag tgaccgctga tgctgatntc gtgcg 455

<210> 52212
<211> 455
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-002-Q1-K1-F5

<400> 52212

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agctccgcgc cctcatcgcc gagaagagct gcgcgcccct catgctccgc ctgcgctggc 120
actccgcggg gacgttcgac gtgtcgtcga ggaccggcgg tcccttcggg actatgaagt 180
gcccggcgga actggctcac ggcgccaacg cggggctgga catcgcggtg cggctgctcg 240
agcccatcaa ggaggagtgc cccaccctct cctatgccga tttctaccag cttgccggag 300
ttgtggccgt cgaggtcacc ggtgggcctg agatccccct ccaccccggc agggaggaca 360
agcctcagcc gncacctgag ggccgtcttc ctgatgccac caagggttct gaccacctga 420
ggcaagtctt tggcaagcag antggtttga gtgat 455

<210> 52213
<211> 389
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-F6

<400> 52213

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tgtgttcaac aagggaggga gacagatgca gatgcagtgt gagatgtttg catggaggcc 120
cctatagaaa caagtgaaat gtttaggcgc ctttgtgcac atgctggctg cattccttgc 180
aagaatacca ggggtggggc cagaatggca tgagctgggt gttcctttct aactcttctt 240
cttcttcttc tctcttcttc ctttatttac atttttcttt tatgtgtttt cgtctaatta 300
aagttctggt tttgtagttc taccgtgcaa ctcatgttac cggaaaagaa tatatgaaca 360
ggaaatccca tatgatcttt gccatcttt 389

<210> 52214
<211> 410
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-002-Q1-K1-F7

<400> 52214

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gctggagacg gcgacgggca ccatccaggg gttcgcgccg ctgagccaga tccaccagca 180

cctgtgcgcg ttccacttct acgcggaacg catggggcgg caggtggagg cgcaccactt 240

ctgcgcgcac ctgaacgaag acgtgcggca gtgcctcatc ttcgacgggc ccggcgccgg 300

cgcgcgctc atcggcgctg agtacatcgt ctncgagacg gtgttcctga cgcttgccga 360

cgccgagaag ccggttgtgc acacgcacga gttcgaggtg aaaggcgggt 410

<210> 52215

<211> 354

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-F8

<400> 52215

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gttccttggt aggtatcatg acagaacagc aggaaggtgt tagcaagagc tcttcctcaa 120

gtattagcag cagcactcag gagagtgagg aggaactgac catcggtacc cttataaccg 180

aagcaacaaa cacaacaaac agtgccaaga gtcttggaag gcgcctttca cacttagatt 240

cgatcccga cactccacgt gttaatggga aaattccaga ttttaataat gcgacaattg 300

atcatgaatc attattagaa agattaagca cttatggctt agctgaatat caaa 354

<210> 52216

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-F9

<400> 52216

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 cgctgagagt acacatgtca gatgatacaa ctcatctatt catcacaagg acttccaagg 180
 aagcgcaaga tgtacttttg ctcttgagcg taactaactt gcccaaatta aaccacaaga 240
 tacatthttca aagttgggag aacatccaag tcaaattggt cgagaaatgt attatacgca 300
 gaactgcata tacgggaata tgtctctact ctatgttgat gttctggagg aatgacgttg 360
 aagaagactc ccgtttttatt agatccatct ttgtcattga atgctccata ttggtgtgca 420

<210> 52217
 <211> 429
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-002-Q1-K1-G1

 <400> 52217

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 cagacggggcg aacaagatga gggagatcat cagcatccac atcgggccagg ccgggatcca 120
 ggtcggcaac gcttgcctggg agctctactg cctcgagcac ggcacgcagc acgatggcac 180
 catgcccagt gattcctcgg ttggcgctcg acatgatgcc ttcaaacagt tcttcagcga 240
 gactggttcc ggcaagcatg tgcccagggc catcttcgtc gaccttgagc cactgtcat 300
 cgacgaggtt cgcactggct cgtaccgncg gctctttcac ccagagcagc tcctctcggg 360
 gaaggaggac gcagctaaca actttgcccc tggccactac acggttggga aggagattgt 420
 cgatctatg 429

<210> 52218
 <211> 382
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-002-Q1-K1-G11

 <400> 52218

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 tgctgcata ggttgctaca cgtatatatt ctgaagaaga gatcgagatg accagcgtgt 120

ggaagaccaa ggttctgcct ggctcaaca agatctttga caaggatggc aagaaggctg 180
cagctgcagg cttcttgaag tccttcaaca aggaggagtt tgacaaggag attgaggaca 240
agaagacaga gctggagccc aaggtcgtgg aggcctacga agcatctcct cctgaggtca 300
aggctctctt caaggataag aagccagtca aggtcagcaa gaagaactcg gctgcagtca 360
ccaagttcct cgatgagctg gc 382

<210> 52219
<211> 369
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-G12

<400> 52219

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accaatctcc aaggaagtat ccagcttagt cattggaggc acaatgaact tgcattggtg 120
tcttcatata caagcgacga aagtaggatt tggaacagtt ttgagccaga taatttctct 180
cgtggaaacc gccagatgt ctaaggcccc tattcagaag ttgctgatt atgtagccag 240
catttttgtt cctattgtca tcacctgtc cttcttgaca ttccttgcat ggtttctatg 300
tggtggttg ggagcatatc caaactcatg gtctgctgaa agtagcaatt ggctttgttt 360
cttcctaata 369

<210> 52220
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-G2

<400> 52220

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ggatgtgagg cgtacaacct tggaaccgga aaaggaacat cagtgttgga gatagtcaat 120
gcatttgaga aggtctctgg aaagaaaatc cttttggtca tgggtcaacg gcgtcctggt 180
gatgctgagg ttcttttttc atcgccggca aaagcggaga gagagctgca ctggaaagca 240
aaatatggca tcacagaaat gtgcagagac ctgtggaact gggctagcaa gagcccttat 300

ggatacgcgg catctgagtc tcccaagctg aatggcagtt cacgctgagc aacacgattg 360
 gtccttgtgg actcacttgt acatgagaca gtagtgcta ccaggataaa ttagatcta 420
 gta 423

<210> 52221
 <211> 461
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-G3

<400> 52221

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 tacgacgcgt ccgggtcggt catggtctac tcctctctcg acaagcatct ggtggagaca 120
 attacgaacc cgggtgacag ccaggcgatg agcagcatca acctcttccc cgccggcttc 180
 tcctctgtcc cctcaccaa cccggacccg gcgccgcaag agggctccgg cagcatcgca 240
 cagcctgggg cgaccgtgat gactgccggg ttccagattc tgatgaagat ggcccgctggg 300
 accggccttt gccctcgctc ggtgtcgctc gcggtaaga tcatgtcaga caacatcacc 360
 aacatcaaag acgtctgtgt gaaaagccac cctgttttct acaagagcat tcagtctgtc 420
 gactgaatag cggcaagggg gaaagggagg tcgtccaatg c 461

<210> 52222
 <211> 114
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-G4

<400> 52222

gtataactac tactactacg aggctagctg cgcgctgaac acagcgctgt aaaggagtgt 60
 tggtgtgcta aattcagaat gtgtaagttt aatttatgtt attaccagtt aacc 114

<210> 52223
 <211> 410
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-002-Q1-K1-D11

<400> 52223

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tgcacccaag ccaccacatg ccatacaaac cctagataac ccattcggac cgtctgcgta 120

tgacgccaga catcccgaat ataatgtcgg acgggtccggc cacatggccg gacagtccgc 180

gcatggagtc ggacgggtccg cgtatttacc ggacgggtccg gcacagagtt ttttaaggaa 240

gatggatata taactccgta ttcgtcccag ctagactccc catctcacca tacgacanca 300

cagcatcata atataatcta tcaaacctgt gagagtgaga acctttcggc ccctagaaaag 360

ccagaaagga tggccagtcc tatgagcctc atanggcattg cattaacgcg 410

<210> 52224

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-D12

<400> 52224

cccacgcgtc cgcttcagat ctcaagaaga tggctcttcc tccttgccac atgtgggcac 60

aatttaattgt ggagaacggg aagctatcct gccagatgta tcaacgtttt gaaaacatgg 120

ggctgggggt tccattcaac atggaataat atcctctttt gacatatata atggctcaag 180

tttgagatct ttctccagga gattttgtcc atgttatagg ggatgctcat gtctatagaa 240

atcacgttcg agctctggag gaacagattc agaagatgcc taaaccattt ccaattttga 300

agataaatcc ttcgaaaaag gatatagatt ctttcatggc gtcagacttc aagctgggtg 360

gctatga 367

<210> 52225

<211> 173

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-D2

<400> 52225

atcatatcct atattgaaga caggaactct ggcatcaciaa ccagacatt gttgagacca 60

tgcttgggca tctgcaaaca atcgtaaaga atagctctga atctaact gatgaaattc 120

ccaagattaa tgttcctaca aacccaaaag gtgctgaaag acttccacca ggc 173

<210> 52226
<211> 393
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-D3

<400> 52226

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gcacggcggg caccaccagg ccccgccgcc gcacgagcag acgctgttca ggatcttctg 120
ccgcgccgac gaggcgtact gcctcacgt ggcgccagac gccgtcgtcc tcgcgcccac 180
caacccccgc gacgagtacc agcactggta caaggacatg aggcacagca cgaagggtgaa 240
ggacgcggag ggccagccgg cgttcgcgt catcaacagg gccaccggcc tcgccatcaa 300
gactcgttc ggccagtccc atcccgtaaa gctgggtgcc tacaacgcgg agtacctgga 360
cgagtcggtg ctgtggacgg agagccacga cgt 393

<210> 52227
<211> 88
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-D4

<400> 52227

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aagggttaaa tttttggggg ggctatac 88

<210> 52228
<211> 164
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-D6

<400> 52228

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cgctcccctc cgctcccgaa cggtcgatct ttgcatggca gcagcagctg gctccaaggg 120

gcgggcgatc gctggaagct tcgtcagccg cgtcctcgcc ggca

164

<210> 52229

<211> 292

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-002-Q1-K1-D8

<400> 52229

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gttcagcaag gaagcccaag ccttcttgat tgctattatt gagaattttt gcattgatga 120

tgcaaaagaa ataaagaaaa tcgagaaagt aaccaaccat gatgtgaaag ccgtcgagta 180

ctttctgaag caaagggtgca gctccaatcc agagattgct aaagtgtcng agttcttcca 240

ttttggctgt aactttgaag atatcaacaa tttgtcacat gcattggctc tt 292

<210> 52230

<211> 344

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-E1

<400> 52230

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gtacctttgg ccattgtctc ttgatcggtc cagtgttacg tcactactgt agagaagaga 120

acggttttgg tccttgaggc gccccgtgta ctggtgttgt cgctgtagaa ttgttactta 180

aacagtatgg tgatgattaa tctcagcatt ttttttcttg cagcaaaaaa aaaaaaaaaa 240

aaaaacaaga tgaaatatat ttttttgtaa ttatgaccag gtgtactgtg ctatacatta 300

aaagtatata tttgtgaaaa aaaaaaaggg gcggccggtt taaa 344

<210> 52231

<211> 355

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-E10

<400> 52231

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gatcagtgca atcgtgaaac atcatcttca ggtacttcag gcagaaaagg aagcactagg 120

gcactgcatg ctgaagaccc gtcaaattatt cacattggag taggatgcga ctcatgtggg 180

gtatatccga tacgtggtaa gagatacaaa tgccaggact gcactgagtt aataggcttt 240

gacctttgcg aagcctgcta caactccagt tcaaagctcc caggacgctt taaccagcgg 300

cacacccta atcacagaat ggaagttgac aattcagcac tcgtgcataa gatac 355

<210> 52232

<211> 399

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-002-Q1-K1-E11

<400> 52232

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tggagaaggc ggggcaacaa cgccatgtta tgggcgggcg cggaagaag gcgcccgcgc 120

tggggctgca gaagcagaac tcgtggctgc cggacatcga gcgcgacgag gcgtgggagc 180

gccggcgagc gggcatgcgc cgcgggggca cggcgctgcg ccgcgcccgc agcgtcacgg 240

acgacgacct cgacgagctc cgcggtgca tcgacctggg ctteggcttc gagccggcgc 300

acgccgncgc gtgcgcgtgc gcctgcgcct gcgccgggag gaaccgncn ctggagaccg 360

ctgccgcgct cgacctctac tacgccgtcc acggcgggg 399

<210> 52233

<211> 355

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-E12

<400> 52233

cttactgagt gaccaggtcg tgggttcaaa gcatttatct cttctctaga cccagtcac 60

gtgggaatct ccgatactag aaggttatag acaccatgaa taccctgac caagtgtcaa 120

tgttagtgtc cgccttaaat actggaatga tgtgtttaat gactgattct tatgggaatc 180

atgttgtgga cactgcctg cagaaattgt tacctgagca caaggcattc attcttgagg 240
ctgctgcac atgctatctt caactagcaa gagatcgtca tggttgctgt gtcctccaga 300
aatgtattgg tcattcaagt gatgaacaga gaaacaactt ggtgtgcaag ataac 355

<210> 52234
<211> 455
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-E3

<400> 52234

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gatcattggt gtcgacctga accccagcag attcgaagaa gctaggaagt tcggttgcac 120
tgaatttgtg aacccaaaag accacatcaa gccagtgcag gaggtacttg ctgagatgac 180
caacggaggg gtcgaccgca gtgtggaatg cactggcaac attaatgcta tgatccaagc 240
tttcgaatgt gttcatgatg gctggggtgt tgctgtgctg gtgggtgtgc cacataagga 300
cgctgagttc aagaccacc cgatgaactt cctgaacgaa aggaccctga aggggacctt 360
ctttggcaac tataagccac gcactgatct gccaaatgtg gtggagctgt acatgaaaaa 420
ggagctggag gtggagaagt tcacacgca cagcg 455

<210> 52235
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-E4

<400> 52235

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aatcatgctc tgttcaaaca gtttagctgg aaccatccc aaggctatcc atccaaataa 120
atgtataaag gaatgaaagt gcaccatata tgataactca aaaataataa tacagtaata 180
acaagatggg cacttctttt gttgcagaca tagataaggg aatatgatca aaacaaattg 240
ctatggcatc atcaatgatg gaaggcctcc gaaatttgag gtttctagat tatgggtatg 300
acatcttttg catggtatca tcttctagat ctttaagactg atccaaatgt aatgaaaga 360

aaaggattag tcggggcgga aactgacgta tgaactcaag tttaacaagat cctgctgctg 420
ctctgctgat gccactaca 439

<210> 52236
<211> 230
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-E5

<400> 52236

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ttgatgggtgg tgaatcgctc catttgatc tgctccgata tgctattttt tgaccatgtc 120
atggctaata ccagtagttt gttgtgcacc atgggcataa tgagcattct gtattcacgc 180
tgtgtgctac aaacatatat ggagtaatat aaattagcag tattttcttt 230

<210> 52237
<211> 456
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-002-Q1-K1-E7

<400> 52237

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ccccagatcc ggcaccgccc gctcctcgat ccccgacccc caccgcccga ggccgggacc 120
ggcgggggtcg cgcgccgggt aggaggagga gaagaggaag ggtgggtatgg cggcgccgcc 180
ggcgagggcc agggccgact acgactacct tatcaagctg ctctcattg gagacagcgg 240
tgttggcaag agttgcctcc tgggtgcggt ctctgatggt tccttcacta caagctntat 300
taccacaatt ggtattgact ntaagatacg aacgatagaa ttggatggca agcgtataaa 360
gctacagatt tgggatacgg cgggccaaga acgcttncgg gactatacca ccgcgtacta 420
ccgaggagct atgggcatct ngctgggtta tgatgt 456

<210> 52238
<211> 414
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-002-Q1-K1-D10

<400> 52238

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tggaacttat atacaaagta cagacacagt gctatgagga tgctaagctg atgaagctgt 120
ttcctgaaat cataagaaca ctgtatgacc aagatgtcct agctgaagat actgtcctgc 180
tttggttccg taaaggttca aaccagaagg gcaggcaatc tttcgtgaaa gctctggagc 240
cgtttgtcaa atggctcgag gaggctgagg aggaagaata agtttttgat ttggagaacg 300
gccgaatgct ggcctaagtg ttactttata tttctgaagt tagaagtttg tggaggaatt 360
attgctgctg cctcttactg ccgagaactt tatngtatga tgtagccac atgg 414

<210> 52239

<211> 457

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-002-Q1-K1-F1

<400> 52239

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tgtttcgatt tagcgacaaa tcagtttgct tcatgttgcg caggcttaga tctgaatgcc 120
ggattcttcg tcttacggct tgaatcgagc tgggaggctg tggatctgag cacgggaggt 180
acaacaaatc cgcgtgtatg acgagttgga tcggcacccg ttagtctctg accgcaagat 240
tttgttgttg tggtgggctg atctgccgcg ttgttttgct tcaggttcta gagctagcga 300
aatcgcaagg ctattaggtt tcctttcgga gcgcgtctga agcgatgatg gctgaagtcg 360
gcggtgggat cgggatcttc tctggcctgc tccactcggg atgatgaatc tgctgcgctg 420
ataattattg gatgaatntc gataattatt aggatct 457

<210> 52240

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-B5

<400> 52240

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gctatacttc ttcggacatt gtgaaggaat tcaataaaca tgacaaggag ccatcaaagt 120
acattaaaca ctggacgggc accaaaccga agactgggtgc aaaatacaca tgtgacattg 180
gatatgagcg attcctaggg cctgagatct ttttcaaccc agagatatat aacaacgact 240
tcaccactcc tttgcaagtt gttattgaca agtgcaccca atcatctcca atcgacacaa 300
ggaggggctct ttataagaat attgtcctgt ctggagggtc gactatgttc aaagatttcc 360
ataggagggtt acagcgggac ctaaagaaga tagtggatgc acgggtccgt gca 413

<210> 52241

<211> 191

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-B6

<400> 52241

taaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aatgaaggta 60
ataaaaaaat taaaaaaaaa ttcataaaaa aaaataaaaa aaaatataat tttaactaaa 120
ttaaattaac atacactaaa ttttacaaca tataaaaaata taaaaaccat ttcttttccc 180
aactttataa a 191

<210> 52242

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-B7

<400> 52242

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tacgccagga ggagggcctc gccgcaggtt ggggtgggagg cggagatgag ccggggggcg 120
tcgccggagc cgctggattt cttcatctgg actgtgcagg atgtagggtt atggttggag 180
gaaataaatc ttggaagcta ccgccaggct tttgaagaaa atggtgtcaa tggagagtat 240

ctagaaagcc tgtcggtggt caccactgag cagattcttc gctttataag acgatgccat 300
atgaaatggg gagattttat caccctctgt aaagagttga gacgcatcaa agttgcctgc 360
ctgaaagggg agcaggaggt ccgcaggccg tgggtgggcg cgatcatgcct gtcggtcgtg 420
ttcacgcggg ttgccaggca caaccggca 449

<210> 52243
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-B8

<400> 52243

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ctccccctgc ctccccctcc cctcgagggt ccaggaccgt ctccctgcct gctcatccgc 120
cgctgcttcc cttctctggg ctccggagaac cggagagaag cgcgcgcggc catggcgctc 180
agcgccctctc ggttcatcaa gtgcgtcacg gtcggcgacg gtgccgtggg caagacatgt 240
atgctcatct gctacaccag caacaagttc cccactgact acatacctac ggtgttcgac 300
aatttcagtg caaatgtagt tgtggatggc accactgtga aattgggcct ttgggatacc 360
gctgggcagg aagattacaa 380

<210> 52244
<211> 419
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-002-Q1-K1-B9

<400> 52244

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cggatgcacg gcctcgccgg ggtgaagagc aaggagctcc tcctctgggt caccatctcc 180
gagatcgtcc tcagcccctc cggcaccaag atcgtgttcc gcacccccgc ggggctcggc 240
cgcgccttcc ctgtcaccgc cttccagctc gagcccgcgg cggcggaggg ggaccacaag 300
gaggaggccg aggacgccgt cgccgtcgnc ggcaactgat ttgctctagc ttccggcggc 360

ggcggccgtg cgtgggctgc tcgatccggt agtggcagtg gctttgtgag acagtcgag 419

<210> 52245

<211> 214

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-C1

<400> 52245

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actacaacat ccagaaggag agcaccctcc acttggtgct ccgcctaagg ggtggcatgc 120

aaatctttgg gaaaccattg actggcagaa ccataacttt gaaggtgaag tctcttgac 180

cattcattat ggccaaagcc agaatccaga ccag 214

<210> 52246

<211> 380

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-002-Q1-K1-C10

<400> 52246

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aaccgaattc tgtacctctt gctgagtcct cgcagtttgg aagcaaagcc caatctagtt 120

ctgcaccctt tgctaaaacc tctcagttca agggcatggc tggaccaaatt tctgtacctc 180

ctgctgagcc ctctcagttt gggagcatga ttagacctaa ttggtacct cccgcatctt 240

ctcagttttt ggggagcatg gttcgaccaa attctgtaac tccagaatcc tcacagtttg 300

gaagcatgac cagaccaaac tctgtacctn ctgtatcgtc acagtttggt aacatgccca 360

gtcaaaattt tgtgagcgca 380

<210> 52247

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-C12

<400> 52247

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ccgccgcacc aagatctccg cgctcgcgct gctcaagatg gttgtccacg cccgcgccgg 120
gggcaccatc gaggtcatgg ggctcatgca gggcaagtgc gagggcgacg ccatcatcgt 180
tatggacgca ttcgcgctcc ccgttgaggg caccgagacc aggggtcaatg cccaggccga 240
tgcctacgag tacatggttg actactcaac catcaacaag caggctggaa ggttggagaa 300
tgtggttggc tggatatcact cgcaccctgg ctatggatgc tggctgtcaa gaatcgacgt 360
gtcaac 366

<210> 52248

<211> 335

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-C2

<400> 52248

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gggtaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaa aaaaaaaaaa ggggcgcccc ttttaaagaa cccaacttta cttccccttc 180
atttcaaaat aaaagctttt ttaaagggcc cccaaattta aattaattgc ctttttttta 240
aaaacttcga aattggaaaa accttggttt tcccgaattt aatccctttg gaaaaaatcc 300
cccttttcca aattggctta attacaaaaa gcccc 335

<210> 52249

<211> 454

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-002-Q1-K1-C4

<400> 52249

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tgcctgagag gattgcgtgg tgatgctggg ataataagagt gctcttatgt ggcttctcag 120
gtcacagagt tgcctttctt tgcattccaaa gtgcggctag ggcgatgtgg cattgaggag 180

atcctaccac ttggaccatt aaatgagttc gagaggtctg tattccatac tcgaacttac 240
aactactcag gttcttgttg tgaattgaaa gtcgcatgct ctgcattatt caacggccat 300
ttcacacatg ctttccgtcg agttatatat ctcagcaaat tagtttggtc agctactttt 360
cgtctacaac aacaggttca tcttgcccac tcatctgacc caccatgatt tggatccgnc 420
aggtngtagt agttattagg ctatggtcaa cata 454

<210> 52250
<211> 462
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-C5

<400> 52250

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tacctgctgc cgcattctga ctcggggtgg gcggtggacc aggccatcct cgccgaggag 120
gagcgctctg tcattcatccg ctccggccat gactgggacg agacctgcat gcagatggat 180
gaagtgctgg cagcagtagc tgagaccata aagaactttg cggtcatcta ccttgttgac 240
atcacagagg tccctgattt caacaccatg tatgagctgt acgacccttc gacagtgatg 300
ttctttcttc ggaacaagca catcatgatt gatctcgga ctggaaacaa caacaagatc 360
aactgggccc tgaaagacaa gcaagagttc atcgacattg tggagaccgt atacaggggc 420
gcccggaaag gccgtagtct ggtgattggc tccaaggact ac 462

<210> 52251
<211> 461
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-002-Q1-K1-C7

<400> 52251

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ctggtggcgc gccggacgcc ggcgcggatg ctgcaggagg cacggtgctg gaccagaagg 120
tgtggttccg cccgctcgag gacgtcgaga agccgcccc cgccgcgtga gccgcgcggc 180

gctgctaggg cagccacac tgctgctcgc tcataaaaag ggcggcggga gagcctggca 240
gtggcaggca ctctgctcgt gctcgccggg gctgggctcc ctgcttatat cactgcaata 300
ttatactact agtagtggtg cttgatagca gtgtgtggct gtgctaatac cagtataata 360
ctggttctac tataatacag tcgtatcagg catggcgtgc atcangactg gttgtgatag 420
tagcaacgtg atgctcgtgc cttgtataag aacaagcagg c 461

<210> 52252
<211> 295
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-C8

<400> 52252

cacaaaaaca caggtagggg taggcgacgc ggcggcgaga gcgcgagagt aggaggaggc 60
gtcggccatg acggggaagg cgaagccgaa gaagcacacg gcgaaggaga tcgccgcgaa 120
gatcgacgcg gcgacgacga accggggcgg cggcaaggctc gggcaggcgg atcggctagg 180
gcaggacaag ggcgggcacg cgaagctggc gtgcccgctc tgccgcaccc cggcgcccga 240
catcaagtcc atgcagatcc accacgaggc gcgccatccc aagctccctt tcgag 295

<210> 52253
<211> 197
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-C9

<400> 52253

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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaagaa aaaaataaaa caaaaaaaaa aaaaaagaaa agaaaaacaa acaagaatcg 180
gctagagcaa aacaagg 197

<210> 52254
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-D1

<400> 52254

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tgtaattggc aatctccatc catcagaata cttctatgcc aagcaacaag ccgactatgt 120
aatatctcag gctgacacga acaaagatgg acaattgagc atgaatgaga tgatcgagaa 180
cccctatgtc ttttacaatg ctttattcac agaagatgat tatggctttc atgacgagct 240
ccgttagttc ccaattcaac agcacaaaagc tttatggaat caccactgta ggaagtcgga 300
agactttgtt atgcactgct aagaccatct cgttttctg tctgaaatca tccatcattt 360
gacggtgatt ccatgtaaaa caagcatggt tttagatgca cctattctag aagct 415

<210> 52255

<211> 248

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-A1

<400> 52255

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atcctcgatc gggagacgca gaggtcccg cgccttcggt tgcgcacctt ctccacggag 120
gaggcgatgc ggaacgccat cgagggcatg aacggcaagg agctggacgg ccgcaacatc 180
accgtcaacg agggccagtc ccgcggcggc cgtggaggcg gcgggcgggtg gtacgggtgg 240
ggccgtgg 248

<210> 52256

<211> 278

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-A10

<400> 52256

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aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaggggagggc cgtttaaaaa attccaatct tattaacact ttccagaaac ttaaaaaattt 180

aattatggcg caatatatatt taatttaaatt gcccgacttt ttaaaactta aaatttgaaa 240
 aaaacttggt attaccaaatt aaaatccttt attaaaaa 278

<210> 52257
 <211> 416
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-002-Q1-K1-A11

<400> 52257

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 attgatagag gaaaccaagc aattcgagaa attccactca acgatgatga ctgtgcatat 120
 cagtatgaag ctggttttcc actaggggtt gcattgcttt gtgctgctgg cttctttggt 180
 tatatgcttg cgatgctcca acgccggctt ttaggaatgt catcaacaac agatgatcct 240
 caagcgctn caagaccag cattgcaagt atccctccat cataccagaa gcctttaaat 300
 ccttatattc gtcattcatt catcccgaga gaagaaactg caaacagga aaccggagag 360
 gggttcttca ccacagctgg canactcatg ggaggggcaa aatcatctgt ggggtga 416

<210> 52258
 <211> 442
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-A2

<400> 52258

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 gagaacagaa aaccgagagc ctgatgaggc tctcctgggc gcttggtcac tctagacagc 120
 ctgaagatgt caaccggggc atcggaatgc ttgaagcttc attggacagg tctagcagcc 180
 cagaggaaac aagggagaag ctctacttgt tagctgttgg tcgttacaga actggggatt 240
 atacaagaag ccgacagctt ttggaaagat gcttagagat ccaacatgac tggagacaag 300
 ccataacttt gcaaaggctc gttgaagaaa aaacaaaag agatgggtatg attggcatgg 360
 ctatcatcac aggcgccttt ggagttgtgg gtcttgttgc tgggtgggata attgctgcgg 420
 attcttcgtc atccaggaag ag 442

<210> 52259
 <211> 426
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-A3

<400> 52259

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gtcgcaacag ctgccgccat gtctgccgag aaccagctcg ccgctctggt cagcaacatg 120
tacgccacgg gtttgcttga cgatcagttc cagcagctcc agctgctcca ggacccccagc 180
gcccctgact tcgtctccga ggctcgtcac ctcttctgtc aggacggcga gcggatcatc 240
gaagagctgg ccaaactgct ggagaagccc aacgtggatt ttgacagggg tgacgccttt 300
gtgcatcagc tcaagggaag cagtgcaa attggtgctc agaaggtaa gaacacttgc 360
attcagttcc gcgaattctg tcagcagaag agcagagatg ggtgcctcag gtactggaga 420
caatga 426
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<210> 52260
 <211> 411
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-A4

<400> 52260

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gatgcagcag ctggacttca gcgaggcgcc gtgggacgag gccgccggct tcgcgctcac 120
caagtacccg tcgtacgaga tcgactggga ctccctctc gccaatatc cgtcgccctc 180
tggtggctgg ctggctggct ggctcccatc ctaccacac tgccgtcgtg cagcaagagg 240
agggttaaag aaggttaacg gccgtcgcgc agatgggatt ttagacatcc tgcgcgggca 300
ctagttggat cattagtgtc aatccccgtg cgtccgttcg ttggttggtt ctgtgtaaaa 360
gttcgtccga ttcgattggg ccttgtcact ggtgagtcag ttgtagatct c 411
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<210> 52261
 <211> 384

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-002-Q1-K1-A5

 <400> 52261

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 aatttcccag ttgcaacaac aatccttggc acatctaaca atacaaacca tcgcaacgca 120
 acagcaacaa caattcctac cagcactgag ccacctagcc atggtgaacc ctgccgncta 180
 cttgcaacag cagttgcttg catcaaacc acttgctctg gcaaacgtag ttgcaaacca 240
 gccacaacaa cagctgcaac agtttctgcc agcgctcagt caactagcca tgggtgaaccc 300
 tgccgcctac ctacaacagc aacaactgct ttcacttagc ccgctcgtg tggccaatgc 360
 acctacatac ctgcaacaac aatt 384

<210> 52262
 <211> 371
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-002-Q1-K1-A6

 <400> 52262

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 taactgtggt tagatcaggt tctactgctg ggataccgca gggcatgaga agtttggtgg 120
 cctcagggat ggatactata ttcattggcca gtgtgcgatc atcatgtttg atgtaacctc 180
 aaggcttact tacaagaatg ttcctacgtg gcatagggac ctgtgcaggg tctgtgaaaa 240
 catccgcatt gtctctgcg gtaataaggt tgatgtgaac aacaagcagg tcaaagccca 300
 gcaggttact ttccacagga cgaagaatct gcagtactat gaaatttctg acaagagcaa 360
 ctacaacttt g 371

<210> 52263
 <211> 213
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-002-Q1-K1-A9

<400> 52263

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aaaataaaaa aaaaaaaaaa aaaaaaaaaag gacagacatt ttaaaggaat ccaaatttac 120

atactaatac atacttttta tttttttttt ttttttgagt tcctaatttc atttcactgg 180

ccttggtata acaacgttat tatttgaaaa ccc 213

<210> 52264

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-B1

<400> 52264

cccacgcgtc cgcccacgcg tccgcccacg cgtccggaga acacgatggg ggcatacaag 60

gctgcccagg acattgctct ggctgagctt gctccaactc accctattag gcttggactg 120

gcacttaact tctcagtgtt ctactatgag attctgaact cacctgatcg cgctgcagt 180

cttgcaaagc aggcttttga cgaggccatc tcggaactgg acaccctgag cgaggagtcc 240

tacaaggaca gcactttgat catgcagctc cttcgtgata acttgaccct atggacctct 300

gacatctcgg aggaccctgc tgaagagatt agggaggcgc ccaagcggga ctcgagttag 360

gggcagtaaa gccggcttta tgtgcctaga aactagtagc tag 403

<210> 52265

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-B11

<400> 52265

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gttcaaagcg aagatgaaga aatcaaaggg caaacgggat cttgacacgt gccctcacc 120

aacaggttcg tcgccgacag attcagcaac cagagcatga aaaggtcaag agggccagtt 180

gcttacccta tgaccattgc ccgtgtttta ccagggtcgg tcaccattgt aaatcattag 240

tgttttctgg ccatcagccc ctaatcctta ctgtctctgt cagagctcat actcatgtaa 300

gcatcaggca actaggttgc tgatggctct aggctgaaaa aggatactga gaataaactt 360
 ctgggtgtttg tttataccta taccctgaac atggagtgga gtagatgagc tttaggact 419

<210> 52266
 <211> 355
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-B12

<400> 52266

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 gttacgaatg gccaacgaga atgcccagagc aatcataatc attgatgacg ttgatgctat 180
 agccactgct cgttatgatg ctccagactgg tgctgaccga taagttcacc gtattcttat 240
 ggagctactg aatcagatgc gatgggatag atcaaacagt cgatgagaag gctataatgg 300
 caactaatca tgcatacact ctagatcctg ctatgctgag tgctgctaga cttga 355

<210> 52267
 <211> 410
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-B2

<400> 52267

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 agaacaactt cgggatgggg ctccggggccg ggctgctcgg aggcgcgcgc gggggcctcc 180
 tgatcggcga catgatctcg gactcgtcgg cgtacgacgc cggctacgac gccgggttcg 240
 acgacggcgg cggcttcgat ttctagcgcg ctccgggtggc atgggtggtg acgccacgcc 300
 gcgcatcaga gacggagagg ttcccgtttt ggatttgctt tttgtgattt gtttccttct 360
 gtacgcaatc tatgtaattg tcggaacgaa atcaatcaag attatgcata 410

<210> 52268
 <211> 416
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-B3

<400> 52268

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gggctttcttc cattgatcca gtcttctgaa gctgggtctgg tcaagggtga cttgagtgg 60
tgcaagaaca ttacagatgt ggctgtctcc tccctgggtga agggacatgg aaaatctctg 120
aagaaaatca accttgaggg ttgcagcaag ataacagatg ctatcctctt caccatgtct 180
gagagctgca ccgagcttgc ggagcttaat ctttcaaact gcatggttag tgactacgg 240
gttgccatcc tggcatctgc aaggcacctc aagctccgtg ttctctcact gtcaggctgc 300
tctaagggtta ctcagaagag cgtgctgttc ttgggcaacc ttggccagtc tatagagggc 360
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<210> 52269

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-H6

<400> 52269

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caatcgccat gactacctca aggcgtcttg ccgataggaa gatagcacga tttgagaaga 180
atatcacaaa gaggggctct gttcctgaga cagtcaagaa ggcaaatgat tatcctgttg 240
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tcaagacagc atcaaacgct gggtttattct gaggacaatt ggtcacttac ttttagtcac 360
tctaaagtcg aggaaccagg gtgacatatg cagttgggtc cttaaaaaact atacaagtg 420
atggcgtaac tg 432

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<210> 52270

<211> 349

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-G12

<400> 52270

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tctgggaaag tgaacctat acgcctgac atttctaca aaacattacg atgatgccag 120

tgaacaatct tatactctac gatgatacac ttgcgtctta agttaagata acccctacta 180

ggaaaatatt aagctcttcg tcattagagc cataccatct ctttgattaa cctgaaccaa 240

acttgggtgga ttcttagacc ggagagactt atcactgaaa cgtacacgtt gtctgaatag 300

tgattccaac ttacactcct gccatgctat tattgctact atgcttggt 349

<210> 52271

<211> 415

<212> DNA

<213> Zea mays

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<400> 52271

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cgtcggacgt tgagtaccgt tgcttcgttg gcggcctcgc ctggggccacc gacgaccact 120

ccctcaacaa cgccttcagc acctacggcg aggtcctcga gtcgaagatc atcctggatc 180

gggagacgca gaggtccgc ggcttcggct tcgtcacctt gtccacggag gacgcgatgc 240

gcagcgccat cgagggcatg aacggcaagg agctcgacgg ccgcaacatc accgttaacg 300

aggcccagtc ccgcggcggc cgtggaggcg gcggtggcgg atacggtggc gggcgccgtg 360

atggatgcgg ctacggcggt ggcgggtggag gctactgcag tggtcgtgga ggcta 415

<210> 52272

<211> 371

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-001-Q1-K1-G3

<400> 52272

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cgtcgcgtcg actcccaaga tggataagct cagtggttct gcacgtctta tgattgtttc 120

agatcttgac catacaatgg ttgatcatca tgacgaggag aacctgtcct tgcttagggt 180

tgggtgccctg tgggaatctg tttactgtga ggattctcta ctagtcttct cgactggaag 240
 atcaccaact ctttacaagg aattaaggaa agagaagcct atgctaactc cagacatcac 300
 tatcatgtct gttggcactg agataacata tggngaggca atggttcctg atgatggctg 360
 ggaagaatat c 371

<210> 52273
 <211> 430
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-G4

<400> 52273

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 cactaccggt acctacagaa ggtgtacaga aagagactag accaaacaag aaatcaaaaat 180
 gggataaggt tgatgggtgat gttaagaacc atgtgggttcc tagtggacac gacaacttat 240
 cagcaactac tgccggcactc ttgacttcag ctaatgttgg tgctggatac gctgggttttg 300
 cgcaacaaaa gagaaaagag gccgaagaaa agaaaaacga tcataagtca gacagaagat 360
 cgtagcacca ctttttgttt cattctgagc agtcagcgta tcatttattt tttttcagtg 420
 acatagtttt 430

<210> 52274
 <211> 405
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-001-Q1-K1-G7

<400> 52274

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 gtagtgcggt tgtggttgag cgtgtgaagg tgcttctgga aggtcaccct ggtctcctcc 180
 gccacttcaa ccagttcctg ccatggggtt acataagggc tcatggacca gtcgggagga 240

tcagcgtctg atgcagccag ggcaggaag cgcgtgtggc tacctaaaca agcctaaacc 300
tactagctgg tgctttccat cgcataatg gcanaatggg acaagagtat ctggttggcc 360
cgatcatgact gctattctgc atgggcagta ccattaagac atgta 405

<210> 52275
<211> 455
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-G9

<400> 52275

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aggtggcact gcagtcttgc cttcaactgc attgatgctt gctgtgcctg cacagattgc 120
tggatgcaaa actattgttc ttgccacacc acctagccgt gatggttagca tatgcaaggc 180
acacttgata tggaactgca ccgggattct tttttaaaca attggttgat ggagcattat 240
atacttgttt cctgcaggag gttctttact gtgcaaagaa agctggtgtg acacacatat 300
tgaaagctgg aggagctcat gcaatctcag caatggcatg gggaactgca tcttgcccaa 360
aggctgagaa gatttttggg cctggtaacc agtatgtaac agctgccaaa atgattcttc 420
agaacagtga agctatggta tctatagaca tgcct 455

<210> 52276
<211> 360
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-H10

<400> 52276

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acctccacac cgccgacggc ctcaagtccc tcgaggctca cctcgccggc aaaacctatg 120
tgtctggtga ctccattact aaggatgaca ttaaggctct cgccgcggtg ccgtcgaagc 180
ctgtcgctga gtttcctaata gccgcccgt ggtacgagac cgtctctgcg gctgtagcct 240
caagattccc tggttaaggct gttggtgtaa atctgcctgc gggatcagct cctgcggcag 300
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<210> 52277
 <211> 466
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-H11

<400> 52277

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 cgggtccgaa gacagtttgt gcgacagtct gagcaggatg atcaaacagc gcatgggttca 180
 gaaagatgac acgtaatttc taatacaacg tatcatcttc ttcggcatat ctgagaatta 240
 tgcggatctt cctattgcgc atcttcgtcg acagatctga caattaagtg gtccttgcca 300
 ttgctgatag tagcccaactg attcccaacg ttagagtaca caatatataa gactctagct 360
 gtcaatttct gtgattgact gcatatgac accctagcgc tatggagtca acaatgtaat 420
 atcgatatac tatgttcgtg ccttggcacc ttggcgggtt gcaatc 466

<210> 52278
 <211> 428
 <212> DNA
 <213> Zea mays

<223> Clone.ID: LIB3079-001-Q1-K1-H12

<400> 52278

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 actcagtttc tacgacagtc tgagcagtat tatcaaacat cgcattggtta acaaagacta 180
 cacgtaattt ctaatacaac gtattatatt acttcgccat atctgagaat tatgcggatc 240
 ttcctattgc gcatcttcgt cgactgatct tacaataaaa tgttccttgc catttctgat 300
 agtagaccac tgattccaaa cttttgagca cacactatat aagactctag ctgtcaatta 360
 ctgtaattga ctgcataaga tcaccctagc tctctggagt caacaatgta atatttatat 420
 actatggt 428

<210> 52279

<211> 224
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-001-Q1-K1-H2

 <400> 52279

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 tgttgctgca acagtcatga gacctattac agtagctacc tgcggtgcac tgactggcac 120
 taatcatcag ggcactacgt cttcaacaac ttgtgctaac aaaacttgca gcctactctc 180
 agcaacagca gtttctttca ttgaaccaac tagctcgatt gaac 224

<210> 52280
 <211> 390
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-001-Q1-K1-H4

 <400> 52280

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 gaagcatgct ggagcctact ggtttgaag tccaaactat ggagtattta cctgggatga 180
 caaacttcca ggagctcagg ttcttctcag caggttgcga ctcttcttaa gtccagggtg 240
 cccttacgaa gaaatactga ggacattcca caaccaaacc gacaatgtta tgtgctcata 300
 tctgcctcta ttcaattcat tcaacttcac taaaggagga ctaatacaac tcaaccatgg 360
 aaggcctcag ccacttcagt atgctgtcaa 390

<210> 52281
 <211> 357
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-001-Q1-K1-H5

 <400> 52281

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gagaggccta tcacatctttt actgtcaaat ccaacctctc attctgaatg tactgctgaa 180
gaagcatata actggactca gggtcgtgta atatttggcc agtggcagtc catttgaccc 240
tgtggagtac gatgggaagg tttttgtacc tggacagtcg aacaacgcct acattttccc 300
tggatttggc cttggtcttg ttatctctgg agccatacgt gtccacgagg acatgct 357

<210> 52282

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-E7

<400> 52282

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ttgcgaagaa tgagggaagc atcaagcgag ctgtgatgga gctcattgcc agggagaaga 120
aggacaagtg aagatcgtgt gctatctaag tatatattcg taaataatga gacggctgtg 180
ccactgcggg gcagccctgg tgcgtctcag agcttgetta tggatgaactc ttcgtgttag 240
gtttcttctt tatatctgtc gtgtctgcgg tgtcgatgaa ctatctagta tgtggagcgt 300
gtgctgtctc gcagttaccc tgccatgcca cgtggactgg ctgtcgtgcc tactgtctgt 360
taccatgtat atatataaaa aatgatgcgt gg 392

<210> 52283

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-E9

<400> 52283

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aaaaggaaat taaggtggac gactacatta cgcacaacat gaacctggct gacatcaacg 120
acgccttcca cctgctgcac gaaggtggct gtctgcgttg tgtgctggca atgcagattt 180
gaaattccta agctaagcag tttttgtttt ggaactagaa ctcttttttg cctcgttagg 240
cctggacccg ctgtataatg ctatgttgtg ttggatggct gacgatgggt actgctgtgt 300
tgctagcaat gtggtacttg atctgtatca cggatgcaaa taagtgtgtt ttctaaaaca 360

ctccctctcg gtgaataagg ggttgtttgg tttaggaat cattcca

407

<210> 52284
<211> 173
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-F1

<400> 52284

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attatctgaa actactggaa acctacagcc ggctgtagtt ggatgctttt gcttgcgctg 120
atatgtttat ggaagcatca gtgttggcga tgaatataat gacgatcatt cta 173

<210> 52285
<211> 465
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-F10

<400> 52285

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aaccagaaat tgatgcattt gcagaggagc tgaggccgca tcaaaaagct ttattaccag 120
ataagtcgac tgtgcttgac cgagcaatga tcgagcataa tctccttagt gccagtaaac 180
tttacacaaa tatcagcttt gatgagcttg ggacattact ggggattgat ccaaggaagg 240
ctgagaagat agcatctcgg atgatttatg aggatagaat gcggggctca attgatcagg 300
ttgaggctgt gatacatttt gatgatgaca cggaagagct gcagcaatgg gatcagcaga 360
ttgctggact gtgccaaagg ctgaacgaca tccttgacag catgtcaagc atgggaataa 420
ctattccggt gtgaataaat atctcatgct gtcggtcgat ggtgc 465

<210> 52286
<211> 469
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-F11

<400> 52286

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 gtttgttgaa acattggaca gatgcttcaa gaatgtatgc gagcttgaca tcgtatttaa 120
 cttcaacaag gtaccatgat tccatatgat cctacttttt ttatcctttt atactagaat 180
 agtgtgecta tcgaggatgc atggttttcta tcttgcgtgaa aattccattt atgattcttc 240
 aggtgcatgt tttatgcagc agaaaagggtg ggacacagaa gctgcatcac catttttgac 300
 agcagttggg ttatctgtat caaattacgc ctttttatgc acatgtcata tgcagtgcgtg 360
 tgcatactcg aaagtttgag tataacaaat gcctgaatcc aagaatccct gttatgcaga 420
 atagctatac cattatctat ccatctaatt aattatcgtg ggtgtaata 469

<210> 52287
 <211> 457
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-001-Q1-K1-F12
 <400> 52287

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 gtctcatggt ccacattcct aacactcata atctgcaatc gcgctatact tctaagtgc 120
 caggaacctc atgccgtttc gccacacttt gctcagtttc tgatctttgg ccttgtgtca 180
 actgctgccc tcttccatg gcatttccact cccaaccgag tattgcatct attacacttg 240
 tctggaaaga acaaaacctg tggttctctg gcactcttaa tcggtcttgg tttaagctat 300
 atcgtgttac atttcttcat cattgcccac cgttatattc tcaactgacaa tacacactat 360
 accttctata tttgcaggaa cgttatccat gtcaactgga tgatgaagca catgttcatt 420
 ccactctatg agtactcatg gcttctaata atcaaca 457

<210> 52288
 <211> 231
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-001-Q1-K1-F2
 <400> 52288

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ctaaccacac cctcccatga ctagcatagt atgttacacc cttcccatta ttaacataca 120
 tgttggaatc cattccataa gttgtccatg gcactttcct gaatccaatg gctgtagacc 180
 atgctgggtt atactttgtt ttatgcaatc ttatatttcc gatttcaaat t 231

<210> 52289

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-F3

<400> 52289

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 gccctgttgc cttcttgaca caacaacagt tgttgccgtt ctacctgcac gctgcgccta 180
 acgctggcac cctcttataa ctgcaacaat tgctgccatt caaccaactt gctttgacaa 240
 acccaacaac gttctaccaa caaccatca ttggcgggtgc cctcttttag attgcctaata 300
 gagttatagt tcaataatga agtttttttg atgatgtttg ggctttccag aaattaagac 360
 agttcatttc t 371

<210> 52290

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-F4

<400> 52290

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 tatatttttag caagctggca gttgatgtga ttctctatgt ttacattttg tcaaattaac 180
 gacaagaggg ttaagtttta gaagcaacta ccttgcaactg gtttaataata tctgtgagga 240
 cccaagttgg tcccagtcct cttcgattgg tgctctgttc ctgtgatttg aggaaagttt 300
 cagtacatca cattgtattt tgattagtga atgaagcatt tagacgatat tgttgcatgt 360
 gtgcattctc tttcttacat ttgagttaag ctttcttatt tgagctctat gatactatgt 420

actcaatac

429

<210> 52291

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-F5

<400> 52291

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tcccctcccg ccgcgtcaca tcgccgccgt cctcgtgccc cgttacctct aaaaccctag 120
cggggagccg ccgagccggg gatgaagatc cagtgaacg cgtgcggggc cgcgaggcg 180
cggggtgctgt gctgcgcgga cgaggccgag ctctgcgctg cctgcgacga ggaggtgcac 240
gccgccaaca agctcgccgg gaagcaccag cgggtgccgc tctgacgga cgccgccgtc 300
gctgccgcg cagcggcgcc ggccgtgccc aagtgcgaca tctgtcagga ggcttctgga 360
tactttctct gcttagagga ccgtgcacta cttttagtag act 403

<210> 52292

<211> 281

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-F6

<400> 52292

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taaataaaaa acacattaaa ggggggaaaa aaaaaaaca atacacatac aaaccacaca 120
tcctcatcct tcccgaggtt cccacattct ttccccctt ccattgctat cattcctttc 180
cggtcctccc ctattccatc gtccttaat gctgttcccc acctacctga ctttcccccc 240
ctttgttcac accttctttc tgttccctct ttgctttccc c 281

<210> 52293

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-F7

<400> 52293

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tggcggcgga ggacgcgtac ccgtacagag cgcgccaggc gtccctgcaag aagtcgccgg 120

ccccggtcgt caccatcgac ggctacgagg acgtgccggc caacgacgag tcggcgctca 180

agaaggcggg ggcgcaccag cccgtgtccg tcgccatcga ggccagcggc tcgcacttcc 240

agttctactc cgaggggggtc ttctccggca ggtgcgggac ggagctggac cacggcgctc 300

cggcgggtcgg ctacgggtgtc accgcggacg gcaccaagta ctggctggtc aagaactcgt 360

ggggccccga atgggg 376

<210> 52294

<211> 456

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-F8

<400> 52294

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catatgctct attgcaacag ccataccttag tgcattctgta tctccaaaga atcgcggcac 180

aacaactaca acaacagttg ctaccaacaa tcaatcaagt agttgcagcg aaccttgctg 240

cttacctcca gcaacaacag tttcttccat tcaatcaact agctgggggtg aaccctgcta 300

tctacttgca ggcacaacag ctactaccat ttaaccaact tgtcgggagc ccttatgcct 360

tcttactgca acaacagctt ctgccattcc atctgcaagc tgtggcatac attgttgctt 420

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<210> 52295

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-F9

<400> 52295

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agttctctgc tctgcatcta atccaacagg gtcagtatat ccaaaggagt tgcttgagaa 120
aatagctgat atagtcaaga agcatccgag gcttttggtt ttatctgatg aaatttatga 180
gcatattatc tatcagcctg caaaacacac aagctttgct tcactacctg gaatgtggga 240
aagaacatta actgtaaagt gtttttctaa ggcttttgca atgactgggtt ggcgctcttg 300
ttaccttgca gccctaaac attttggtgc aacatgtgga aagatccaaa gccagttcac 360
ctcaggtgcc agcagcatat cacagaatgc aggggttgcc gctctgaatc ttggctatgc 420
tggtggtgaa gcagtatcaa ctatggtc 448

<210> 52296

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-G10

<400> 52296

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ggaacagaca ctgaacaacg ctcgctccggc tcctgagaag aggcagcggg ttccgctcggc 180
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ccacagggaa gccttcagca cagcagccaa gaactgggca cattatccga acatccattt 300
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ggtggcgggtg gctccgaaga agatccaagg tttctactga tcgatgccgg tcgatcgatg 420
gatcagcgct cgtcgtcatc aactggccgg acgggtgtg 459

<210> 52297

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-E6

<400> 52297

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gcgaccgacg aagcaccgcc gccaatgggc aacaacaaca acacggaatc ggcgacggcg 120

acgatgggtcc gggagcagga ccggtgatg cccgtggcca acgtgtccc catcatgcgc 180
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 cgcaagaccg tcacctccga ggacatcgtg tgggccatga gccgcctcgg cttcgacgac 360
 tacgtcgcgc cctcggcgc ctcccttcag cgcgtgcgc acgacagcga ccacggcggt 420
 gaagagcg 428

<210> 52298

<211> 463

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-D11

<400> 52298

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 gatcgtgga agcttcgtca gccgcgtcct cgccggcaag gccgcctcgc cgaggagggc 180
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 cggcgcggtat gctgcaggag gcacgggtgt ggaccagaag gtgtggttcc cgccgctcga 420
 ggacgtcgag aagccgtccc ccgtcgcgtg agccgcgcgg cgc 463

<210> 52299

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-D2

<400> 52299

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agagtttgaa tttcaaggca acaccaatgc caagctttta taaggaacca acccctgcca 240
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 aaaacaagtc catatcagag actgaagaaa atactactac ggaccaacct gcccgctctga 360
 gccttgactg aaaggtttct caaaacggtg tgaaaaaacc aaccccgtcg agttcagcaa 420
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<210> 52300

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-D3

<400> 52300

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 attctctgcc acaatggacg atggagctga tcctccctgc caactgctct tctccccacc 360
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<210> 52301

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-D4

<400> 52301

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 gaggcgagta gcaagcgaag aacatgcaga tgcaggtcgg aggaggcgcg gccgacagcc 240
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agcggcgggga ctggcacacg ttcgggcagt acctgcgcaa ccaccggccg tgcgtggagc 360
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<210> 52302
 <211> 428
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-001-Q1-K1-D5
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 caagacgc 428

<210> 52303
 <211> 439
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-001-Q1-K1-D7
 <400> 52303

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 acgttgaca caccatcata tgcattgatg cttgatgacc ttcttctacc tagctagctt 120
 cattagtga ctgactgca cgcacgcagc ggtgatccat ccgttcgcgg aggagctggt 180
 gtacttcacc ctgttcgcca tcccgctgct caccatggtg ggacccggca ccgcctccgt 240
 ggccgtggcc aacggctacc tcgcctacat cgacttcatg aactacctcg gccactgcaa 300
 cttcgagctc gtccccaggc tgctcttcga cgtcttcctt accctcaagt acctcatgta 360
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439

<210> 52304

<211> 303

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-E1

<400> 52304

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gtggatttct tgagtgttta gctcatgcat catacataga aagctctgta aaattttact 120

ggccaagtga tgccaaacac tgaccggcca tttaaattga actggtcacg gtatagcatg 180

tttgaaacgc gatctgaact ggctactgat cactcgatat ttgatgccca tctagctgct 240

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gct 303

<210> 52305

<211> 474

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-E11

<400> 52305

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gcaagaatat tggcacttca cctagtccaa atggttctgc tgtagtcaag aagcaaagtc 120

caaaggagag caaaaaggaa gttgctactg agagaagatc accaccaaag cttcatagga 180

gttcgccaac accagcgagg acttcaccaa caaagctcag tccagcagca aagcagaatg 240

gaaactctgg tccagtttct tctgtatcta ctgttaaaaa aagagttagt gaaactatct 300

cttgggactc cctcccaaca agcctaatac attcaggaaa ggctgttgctc cggaggaaga 360

acattgctct tattgtagcg gctgaggctc aaagggaagc tgctgcagct gcgtatcttg 420

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<210> 52306

<211> 446

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-001-Q1-K1-E2

 <400> 52306

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 tcggctaccg ccaattcgac acggccgcgc actacgccac cgaggcgccc atcggggagg 120
 ccgtcgccga ggccgtgcgc acggggctcg tcgcctcccg cgaggacctc ttcgtcacgt 180
 ccaaggtctg gtgcgccgac gcgcaccggg acagggtgct cccggccctc cgccggacgc 240
 tcagcaatct ccagatggaa tacgtggacc tgtacatggt gcactggccc gtgaccatga 300
 aggccgggag gttcacggcc cccttcacgc ccgaggactt cgagccgttc gacatgcggg 360
 ccgtgtggga ggccatggag gagtgccacc gncgtggcct ggccaaggcc atcggcgtgt 420
 gcaacttctt ctgcaagaag ctcgag 446

<210> 52307
 <211> 419
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-001-Q1-K1-E3

 <400> 52307

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 agtcagcacg gagtccaggt gatggtgttt cagagaagca aaagaaagag aaagaagaaa 180
 gagaggcaat ggccgtagag ttagggaaca ttgccataga tggtgcttct tccaggatgg 240
 caaatgacct ccaatcaagc acaataaaac aaccgctacc tcttctaaga agtgagctgc 300
 atttgatttc atgagttaag ctgtaaaact tgttttcatt cgagaattgc tccatgagtg 360
 ggaaacatat gtttttttta ggtttgagat atggtaagat agctaccgag ggaaaagaa 419

<210> 52308
 <211> 447
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-E4

<400> 52308

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taaattagag aaggaccttg ttaatatcgc tgtagaagat tctgtggata gtgatgatgg 120
aggcaagtca cttatcagag agatgccgcc atatgaagct gaaaatgcaa ttgctaattct 180
ggtgaaagtg tggataaaag atagagtaga cagactcaag ggatggggttg accggaattt 240
gaagcaagag acctggaatc caggtgccaa cagggataat tttgctccct cttctgtgga 300
gatgcttcgg gttattgggtg aaacattgga tgcatttttc caattgcta taccaatgca 360
tccagctctt cttcctgata tgacagctgg gctcgacaga agcctacaac tttatgttgc 420
taaagcaaaa tctggctgtg gaacacg 447

<210> 52309

<211> 387

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-001-Q1-K1-E5

<400> 52309

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ctcaactgaa aagtgtggta gataactaga tgttcatggc actgtatcac attggttgca 120
ccgtgccttg catcagtgtt gtgttactgt aggggtggcta cgctgtcct aaggatatgg 180
ccagcagacc gtgcatgtgg cagtgtgtgt tgcacttaaa ttatgatatg ggaggggtaa 240
ggctggagat agcttaacca gagtgggtgt ggtgctgtga tctagtggca gaatgtaaga 300
aactggctac accttttaca agctgcgtgt tggagatgta tggngctgtt tgcgttggat 360
tgaccgctgc agttgtaatc tatagag 387

<210> 52310

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-D10

<400> 52310

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gagattacta tatacagggt cgtgatcaaa ctttgagcag aataaagagc aatattgaac 120
tcatagtagc gacaaatggt ggaaataggg tgggtggtgat cccacactcc atgggggtcc 180
tctattttct gcattttacg aaatgggtcg aagcacctgc tcccgtgggg ggcagtgggtg 240
gtccgaactg gtgtgagaac catattaaag ctgtaatgaa tattggagga tctttcttag 300
gagttcctaa ggctgttgct gggcttttct catctgaagc caaagatggt gccgttgcta 360
ggtataaggt aattgattca tttatttaaa gcaaaagggg atagcaaaag aatggaatat 420
tattggatgc tcgacaagct tggc 444

<210> 52311
<211> 422
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3079-001-Q1-K1-B4
<400> 52311

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gatggcacc cagatactgg ctactatact caggctggca gaaaaactct ggcagacaat 120
tatgagtacg tcatgcaagg gaagctttac aaaatctcag aagacacatc atccagccaa 180
aacgctaaag tggagatgta tgcattgctt gccgggcttc ttatgctgct caggggtgac 240
ccttccactg ccgctagctt tgagcttgat cagaggctct ttctgctcat ccgcaagggtg 300
taaaactgtg gttgctgacc acttangtgt ttgccttgct cgccacttat ttaatttcca 360
tccgtgggtg aagctgttat atactggtgt aagtactggt ttctgtatcg ccatggattt 420
at 422

<210> 52312
<211> 429
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3079-001-Q1-K1-B6
<400> 52312

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 cttatgtgtg gcgaaggtct aggtctattc acagagttat ccgatcgaga gcttagtctt 120
 tacacaagca tccttgcgag gcacttcaat gacgactagg gaaagcttcc gcgcttcttg 180
 atacctcatt aaaaaaata ttggagtcgt tgatcttgtc ttgcgtctct atcttaatca 240
 tgcttccacg ctttacttat tatttaacta gtttgtgtgt ttatttttct agtttagatc 300
 gctaggctaa gtgatatgat tgatacatag gttgtgtaac cactcctttg cggttgcggt 360
 agggatatga acacacatat aggtaagcct agtggttagt gatatntgca tacctcgaag 420
 tcttgagtg 429

<210> 52313
 <211> 401
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-001-Q1-K1-B7
 <400> 52313

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 cggcggcgtg aagggcttcg tgtccaacct cgtccacggc ggcggcggcc atggccatgg 180
 aagcggctac ggccatggcc atggaaacgg ctacggccat gggaatggcg gtaacggcgg 240
 cggccacggg tacccttctc ccgccgcgt cggcgcgtac cctcattcgc acggcgcgta 300
 ccctacccg cacggcggcc acgggtacce ttcttcgtc acctacccg cgcaactcggc 360
 gcactacggg cacacggggt cgtaccacac cagccacaac a 401

<210> 52314
 <211> 106
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-001-Q1-K1-B8
 <400> 52314

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 taaattttga tagtcattgg tcatttagtg gattttcttc taagcc 106

<210> 52315
 <211> 476
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-001-Q1-K1-B9

<400> 52315

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 gtgagccgga tcagcccggc agctaaatta ctgatcaagg aacatggact ggatacatca 120
 tcaactgagag catcaggccc ccgtggcacc cttctgaaag gggatgttct ggcagcattg 180
 aagtcaggta tcaattcaag ttcaacaaaa gaaaagaagt ctccagctca accttcgtct 240
 cagccaactc gagattccca atctcaagca tcctctatct cacaaaagga tgatacatat 300
 gaagatattc cgaatagtca gatacgcaag gtcattgcc aaggttgct cgaatcaaaa 360
 cagacgactc cacatttgta tctatccaaa gatgttggtc tggatccctt gctcgctttc 420
 aggaatgaac taanagagct acatggcatt aaagtttcaa gtaatgacat catcat 476

<210> 52316
 <211> 403
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-001-Q1-K1-C10

<400> 52316

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 tacgaagatt gctacgtata tgggatattc ttgctgatac atttgtgtaa gcatgcacgc 120
 cctcgcactc aactgatat aggagagaat ttagatgaga ataaggatga cagttaacta 180
 ggcaggaagg catgtatcca tgactagact gaatacctga ctgggcataa ttgcagctgt 240
 tagggctagt gtgcagccta atgtgcacaa tgaagtttca ttggaacaaa gataattaga 300
 atataaatcc tttgaaaaat gataatctct aggaaaaact catgtgccaa actagccctc 360
 aaacatatgc tgacaaggaa tcagtccatg aatcacagga tca 403

<210> 52317

<211> 360
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-001-Q1-K1-C11

 <400> 52317

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 cctgattgag caaaagaaaa ataaaaaaaa agaacgcaca acagaaagca caaaagacga 180
 cacagcagaa ccacaaccag atgagaccga tgataaact tcatatggag atcacaaagt 240
 tccgaagaca tccattcttg aaagataata aatctctctt ataggcgatg tgtcgcataa 300
 gcctgcagtg catgaagact gtccttagca tccagtacat ggccacatca caactcctac 360

<210> 52318
 <211> 409
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-001-Q1-K1-C2

 <400> 52318

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 cttctagcgt cgtcctctct tgtctgtgca agcatggcgg tagatgggca aaccaaagag 180
 gacatcaacg caacgagtgt gacgagcatg aacatgacga ggctcgtcgtc ggcgagctac 240
 aacatgactg gcggcggcgg agaacttaac agagggtccgt gcgtcgtgag atctggattc 300
 tactggtgcc agaacattgg ctatccgacc atgtcggagt gcttgaagaa ctgcgaatcg 360
 taaagcactg gagtatagaa aaggaataaa gtggtctctg ctagcttaa 409

<210> 52319
 <211> 311
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-001-Q1-K1-C3

 <400> 52319

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 ccgccccatga tacagtatgg actcccataa tccatgcgac aatgacttca taggccatgg 120
 acctattaca tggcgtccat attggacgac ccgcccagcc aactgagatc gccactagct 180
 tcaagatctt ggctatccag gacagcagct atatctcagg gtagagtttt catcccaatg 240
 gcagagtagt ggtaaaccga tatgttttac gctttttatg aatgtagtat aacgtatgaa 300
 aactttttctc t 311

<210> 52320

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-C6

<400> 52320

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 cccgccgtac gccgcaaggc cgactggggc atgcgctgga tcgacggcgg ggagcgcttt 120
 gccgagcgcc tcgttgctt cgctgcgtc gagggcatct tcttctcggg ctcttctgc 180
 gccatcttct ggctcaagaa gcgcggcctc atgcggggcc tcactttctc taatgagctc 240
 atctcccgga acgagggcct ccactgcgac ttcgcctgcc tcctttatga cctccttcgg 300
 ggcaagctcg atgagtcccg cgtccgcgag atcggtgccg acgccgtcga catcgagcgt 360
 gagttcgttt gcgacgcgt ccccgtcgag ctggtcggaa tgaacggcgg gctcatgagc 420
 cagtacatcg agttcgtcgg cg 442

<210> 52321

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-C7

<400> 52321

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 tgggggaacc aaaaaaaaaa aaaaaggggg aaccaatttt aactccgcgg ggagggggac 120
 gtcatatccc ttccttgggt gtcctgggt gccagtcttt gggggtcgtt ttttggccgt 180

ttcgtctgtt aaacccctgg cgtgtcttca ccttttggcc tgggggggtca ttcccgtttg 240
 gcccggtact gtcttggctt cccggccctt ttcggtcggc ctggcgaacg gttttccgcc 300
 cgggacgggtt tatgggtcgc gccctgtacc ggggcttttt gcccg 345

<210> 52322
 <211> 463
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-001-Q1-K1-C9
 <400> 52322

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 cacagccact actaacaatg accatttctg aaactctgaa gtatgagtac agcctaactt 120
 gtccaatttg cttggacact ttgttcaacc cttatgcgct tagctgtggg catctgttct 180
 gcaaagcctg tgcattgtgt gctgcttctg tctacatctt ccagggtgtc aagtcggcac 240
 ctccggaggc caagtgcctt gtctgccgag cggttggtgt gtttgatcgt gctgtgcgta 300
 tgactgaact agaattgtc ctcaagagaa gggacaaaga ttactttctg cagagactgc 360
 gcgaagagcg aagtgtgatg gtgaagcagg ccaaagaata ctgtgactca caggcaatgc 420
 tatcgatggn ngattgaaag ctacaatgtt cttaccagtt caa 463

<210> 52323
 <211> 433
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-001-Q1-K1-B2
 <400> 52323

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 tgaatactcg gggagtgaga gggaggagtc agagtacgaa acggatggcg aggatattga 120
 acattcactg cctcgtggaa gaagggagga cgagctggat gaggaggaag aatacgagga 180
 agatgttgaa gaagaagaag cgcctctgtc ggatgaagaa atggaggtat gatattcttg 240
 cctagattca gattcttctg aagctaacat atcaaagaac ggaacaatac ttcatgtctt 300
 tacatcagac aagaaggttc acggaaatca gttcagagga gggggcattg gtgtagttct 360

ttttttcttct tctaaataat caaaatggga ctgcgatgc atgcaccgaa acgtaagaga 420
gaatcagggg gtg 433

<210> 52324

<211> 477

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-A11

<400> 52324

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agtgtctaaa ggatgaacct gaggagccaa ccttggggcg cgtggagaaa ccttaccagg 180
ccccctttgc tagggtgaca tcgctggaga atgcatcaga caacagtcca ttacctgaat 240
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ttgagggcca tgtggttaagt gaaaagcctc gaagcaaaga gccaaaaggc ttgaggaaac 360
ttttgaaatt tggcaggaaa agccatgctg agggcgcaat ggattcatca gttgacgaag 420
cctcagcagg agatgggttcg atgctgaaga atctcatttc tcaagatgac tctgggtg 477

<210> 52325

<211> 457

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-001-Q1-K1-A12

<400> 52325

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gaagcaggaa gcaagccgat cgctcgctga ggcgccgcgc cgatggccgt cgcggtgccg 180
atgaagctct ggaggggtga gaccgcgggc aaggccgccg ccgcggggcc cgacgacccc 240
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ggcgcgatgc cgctgctcgg caccgaccct gccggcttcg tcctctccac cgncaacggc 420
 ggatccggcg cacttcgaga agacgagagg atcagct 457

<210> 52326
 <211> 413
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-A3

<400> 52326

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 acccaagggt gttgaggaga ctgtttctca caaccctgcc tggcaagctg ccaaggccaa 180
 gaagcaggag aaggcagagg cacaaaagtg aatgatactc ccaacgggtgc ttgtgttatg 240
 tttagatgat agtccgctca agatcatgcc ccatactatc tagtgtgtac ttgtctatct 300
 cgactgaagt cgatgttttag gtcttttttag ctgatttggc tctgcatgct tcgttgcaac 360
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<210> 52327
 <211> 438
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-A4

<400> 52327

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 ggcggttacg cacacggcgg cgtggaagcg ccgacggtga tgtgccagga caaggggccc 180
 tgctacggca agaaggtggc gtgccccaaag cgctgcttct ggtcctacag ccgctccggc 240
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 accgtcacct gctgatggat cgacgggtag agctaactag ctatctgctc atggctctcc 360
 actcgatcga tgacgatata tactactaca tacagtgtgt gtgcgctggg actatatata 420
 tatatatata tatatata 438

<210> 52328
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-A5

<400> 52328

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acccaagggt gttgaggaga ctgtttctca caaccctgcc tggcaagctg ccaaggccaa 180
gaagcaggag aaggcagagg cacaaaagtg aatgatactc ccaacggtgc ttgtgttatg 240
tttagatgat agtccgctca agatcatgcc ccatectatc tagtgtgtac ttgtctatct 300
cgactgaagt cgatgttttag gtcttttttag ctgatttggc tctgcatgct tcgttgcaac 360
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<210> 52329
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-A7

<400> 52329

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acccaagggt gttgaggaga ctgtttctca caaccctgcc tggcaagctg ccaaggccaa 180
gaagcaggag aaggcagagg cacaaaagtg aatgatactc ccaacggtgc ttgtgttatg 240
tttagatgat agtccgctca agatcatgcc ccatectatc tagtgtgtac ttgtctatct 300
cgactgaagt cgatgttttag gtcttttttag ctgatttggc tctgcatgct tcgttgcaac 360
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<210> 52330
<211> 389
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-A8

<400> 52330

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tttgatcagg acgactggag cacttatgcc aaactcactg atgagattgg acagaaagtg 120
cagattgtag gagatgatct tctcgttacc aacccccacca gggtcgcca ggccatcaat 180
gagaagacct gcaatgctct cctcttgaag gtgaaccaa tcgggtctgt gaccgagagt 240
atcgaagctg tcaggatgtc caagcgcgcc ggatggggag tgatggcaag ccacaggagt 300
ggcgagacag aggacacctt cattgctgac ctctcagttg gcctgtctac gggccaaatc 360
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<210> 52331

<211> 474

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-001-Q1-K1-A9

<400> 52331

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gccagccagt ggttcctcgg ctccgaggaa caggcgaaca gcaagagctt ctgaagatga 120
aggcgatccc cgtggctctc ctgctcctcg tcttggttgc tgccgcctcc tcgttcaagc 180
atctcgccga ggcagcagac ggcggcgcgg tgccggacgg cgtgtgacgac ggcaagtgcc 240
gcagccggtg ctgctgaag aaggccgggc ggtgcatggg cctgtgcatg atgtgctgcg 300
gcaagtgccca gggctgcgtg ccgtcggggc cgtacgccag caaggacgag tgcccctgct 360
acagggacat gaagtcccc aagaaccagc gcccgaagtg cccctaggcc ctaccgctct 420
aagggaggga ggatgaccca ngatttcgct cgcgatcctg cacagcttct agtc 474

<210> 52332

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-B1

<400> 52332

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 tctggaggca aatccggagt acaaagaccg catatctgct tcggatttca gctttgcgcc 120
 acccaagggtt gttgaggaga ctgtttctca caaccctgcc tggcaagctg ccaaggccaa 180
 gaagcaggag aaggcagagg cacaaaagtg aatgatactc ccaacggtgc ttgtgttatg 240
 tttagatgat agtccgctca agatcatgcc ccatectatc tagtgtgtac ttgtctatct 300
 cgactgaagt cgatgttttag gtcttttttag ctgatttggc tctgcatgct tcgttgcaac 360
 ggagcccctg cgtgtcaatt cctggggaat aaatgagatg ttgaataagt gctgtagagt 420
 gtagacctgc ttttt 435

<210> 52333
 <211> 461
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-001-Q1-K1-B10

 <400> 52333

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 tgagaacatg gccctcatatc agaaaatctt gaaagatgag aaggaaactgg cgactcggca 120
 gcaggagggtg cttgatggaa actgcaagaa gtacgacatg ctggaagctc tagtgcagaa 180
 gggagacatc actaaccttg ctcaacaata cggagtgaac ttgaacgact gatgagtcac 240
 tcgtgtcttt ttcccccttc cccttggagc gatggcgcaa ctggtgtgat gatgatggaa 300
 taggatagca tgccatagtt ttggtccggt atctggaccc tccctctggt gtaaagacta 360
 tcccaactta ggcttgggct tttcagcctt ctttggctct ccaaaaaatc taaattagct 420
 ggctctgagc ctctgactnt ctgatcgatc caagctagct g 461

<210> 52334
 <211> 474
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-001-Q1-K1-B11

 <400> 52334

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 gtggcatgca gatcttcgtg aagacactta ctggcaagac gatcacctt gaggtggagt 120
 cctcggacac catcgacaat gtcaaggcca agatccagga caaggagggc attccaccgg 180
 accagcagcg gctcatcttt gctggcaagc agctggagga tggccgtacc cttgcagatt 240
 acaacatcca gaaggagagc accctccact tgggtgctgcc tctcaggggt ggcattgcaga 300
 tcttcgtgaa gactcttact ggcaagacga tcacccttga ggtggagtcc tcagacacca 360
 ttgacaacgt caaggccaag atccaggaca aggagggcat tccaccggac cagcagcggc 420
 tgatcttcgc cggcaagcag ctggaggatg gtcgcacctt ggctgactac aaca 474

<210> 52335

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-B12

<400> 52335

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 tgatcgacgt cctgctaggc aacggcaacg acgagctcac cgacgagctg atatctgaca 120
 acatgatcga cttcatgatc cctgcagagg actccgtgcc cgtgctcatc acgctggccg 180
 tcaagtacct cagcgaatgc ccacaggctc tgcagcaact cgaggaggag aacatggagc 240
 tcaagaggca gaaatcaggc gcgggagaaa ccctagaatg gacagactac atgtcgctcg 300
 ccttcacaca gcacgtgatc acggagacgc tgcggatggg caacatcatc aacgggatca 360
 tgcggaaggc ggtgcgagac gtggaggtga gaggccacct ggtcccgaag ggctggcgcg 420
 tcctcgtcta 430

<210> 52336

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-A1

<400> 52336

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tctggaggca aatccggagt acaaagaccg catatctgct tcggatttca gctttgcgcc 120
 acccaaggtt gttgaggaga ctgtttctca caacctgcc tggcaagctg ccaaggccaa 180
 gaagcaggag aaggcagagg cacaaaagtg aatgatactc ccaacgggtgc ttgtgttatg 240
 tttagatgat agtccgctca agatcatgcc ccatactatc tagtgtgtac ttgtctatct 300
 cgactgaagt cgatgttttag gtcttttttag ctgatttggc tctgcatgct tcgttgcaac 360
 ggagcccctg cgtgtcaatt cctggggaat aaatgagatg ttgaataagt gct 413

<210> 52337

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-C11

<400> 52337

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 gaaacaaagg aagcactgac cagcacgctt acattcagca gctgagagaa ggtgtacaca 120
 acttctttgt tacttttatc gaggtcttgc gtgacaggcc tgctgggtcat gattgggagc 180
 ttgaacctgg agtcacatgt ggtgactatt tgtttgggat gttgcaggga acacgttctg 240
 ctctttatgc aaatgaccgt gaatctatct ctgttactgt gcaagaggta actcctagag 300
 ctgttggagc actggttgca ctttatgaac gtgctgtggg gctttatgct tctttggtaa 360
 atatcaatgc ctatcatcaa cctggtgttg aggctgggaa aaaggcagca ggagaagtgt 420

<210> 52338

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-G2

<400> 52338

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 ggagctcgag cgcgcgctcc acctgcgccg acgcgatgcg ggccaagtgg aagaagaaga 120
 ggatgcggag gctcaagagg aagcgccgga aaatgaggca gagatctaag taggcgcac 180
 ttgtgaccga ggatggcgag cttctcctgc accatggctg tgacgcgttg ggatgattgt 240

ctccctttgt agacgtgctt tgctgtagac gtaggcgatg taaaccgtcc tttttgatta 300
attctagtat gttctgagac tgggtttata ttgtaatttg aggataatta tatgatgctc 360
taagtttatt gatattcctg tcaactgaat atggttagatg tcctttcttc agcggttggtc 420

<210> 52339
<211> 299
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-059-Q1-K1-G3
<400> 52339

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ggtcacgcac attcgtcaca aagccatttg gaccgcggca cgttgctcctc gcgctcgtgt 120
agcccacttt gatgtcgtct tcctttggcc gcatccgaca tctcgccagt tgcccctcat 180
ctccctaccg agcgctgctg tccatccttg tgcaacaaaa atcaccgctg gctacattgt 240
tggtcactg gtcggatcct ttgccattgc atacctgtgt gacacattta tctctgaca 299

<210> 52340
<211> 399
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3079-059-Q1-K1-G4
<400> 52340

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gatttcacgc tttcttcgta cgtccagtc atctctgctg agaaggccta ccacgagcag 120
ctctctgtgg ctgagatcac caacagtgcc ttcgagccat cttccatgat ggccaagtgc 180
gacccacgcc atggcaagta catggcctgc tgcctcatgt accgtggtga tgtggteccc 240
aaggatgtga atgctgctgt ggccaccatc aagaccaaac gcaccatcca gttcgtggat 300
tggtgcccga ctggcttcaa gtgcggcatc aactaccagc ctntagcgt tgtgcctggt 360
ggcgacctgg ccaaggtgca gcgtgccgtg tgcattgat 399

<210> 52341
<211> 84

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-059-Q1-K1-G5

 <400> 52341

 atcgaattgc aattcccacc tacacgtacg cgtactcgta cgcctatgac atcgtccact 60
 tgcacatcta ctctcgcttc taat 84

<210> 52342
 <211> 344
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-059-Q1-K1-G6

 <400> 52342

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 gtacagaatg aaaaggacca cattgagggc tttgcacctg angtagcttg gggtactaaa 120
 tctgggaaat ctgacctgga agcaccgatt gcaatccgac ccacaagtga gactgtcatg 180
 tatccatact tctncaaag gataagaagc caccgagact tacccttgaa ggtgtaataca 240
 atggtgtaat gttgtagat gggagtttag caatccaact cctttcataa ggagccgtga 300
 atntctgtgg caagaggggc atactgcttt tgcgactaaa gaag 344

<210> 52343
 <211> 230
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-059-Q1-K1-H1

 <400> 52343

 aatcattgcc tttctcctac acatgatcta tacgaatacc cttccttacc atcactggcg 60
 gtatcaccat atcgtactgt catttcaata tgcaaacctata taccaagacc ctacacctat 120
 atactatcac actccatgta taacttctga caccattaac actgtcatat ctaagaatcc 180
 ctactatcat gacatacatc ctgaataccc acatcttcta ttttaccact 230

<210> 52344

<211> 430
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-059-Q1-K1-H2

 <400> 52344

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 gccaatctta aaagggaatt tattactcta ttacaattac aaatgcgagg agcatatctg 120
 gttgggaaat agactgatga tgactgcaac tgcagggacc aggagcatgg actgcacatc 180
 aaagatgtca tagatcgtct caaactacca gatgatgtag tcagtgcggc catccaaggt 240
 catgttgatg tgggcaacat ttacaacaca attgatgact tccactacaa atctgtccgg 300
 aatggatgac cacgttgcaa gtccagcgtt caagctccgt gtaagtatgg agcccggttca 360
 aggaagaaga aaatgtaacc ctctttagga tcgcctatat tttgcagata ggcttcatgg 420
 tcaacagctt 430

<210> 52345
 <211> 185
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-059-Q1-K1-H3

 <400> 52345

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 ggccttgctt cttatggctc gattgacttc ttgcgcccatt ttctggaaac aagccattcc 120
 cggagaacag ggaaccactt gaacccaag tgggggtttcc ccggcccttt tcgggggttcc 180
 cgctt 185

<210> 52346
 <211> 284
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-059-Q1-K1-H6

 <400> 52346

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gtatcagcag aacgaaatgg gatccccatt ggaaaaccga cacctgttgc aaacacctat 120
 gtcgttccaa gctccatgga gaagttgggc atgtatttaa agcagagata taaaagcata 180
 cctttgtaca tcacagagaa cggttatgcc caaatagcca atattagcac tacagcagat 240
 gaaataatta atgatattga aagatcaact tacattcgtg acta 284

<210> 52347
 <211> 396
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-059-Q1-K1-C9

<400> 52347

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 gcacaagatt caaaatcagc atcatcaagg gaacagcgca aagcagttct caacatacaa 120
 agataatatt actgattata gaagtgtgaa tgatgttaca aaattgatgt cctccactac 180
 tgaacttgga tgaagttttg aagagagaat gcaaaacata ttattctagg gctgttgact 240
 caattagctc catgttaagg catgcttcag tgtcatcaat ttcaagcctt cttagtaacc 300
 ttcgaagcca tgaacaagta tcatcaatct tttggatgat acattcagac ctncatgagc 360
 ccaatgtacc ccgagcattt gaatgtctnt ctacta 396

<210> 52348
 <211> 259
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-D1

<400> 52348

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 gctcgctgc ctctcagct gcggcgccg caccggggta ggagcagcgt ggaggtctgc 120
 caaggtggag ccaggatcca ctgttgcaat ctttggcctc ggatctgtcg gtttggcggt 180
 ggtccaaggc gcgaaaatgt gtggcgcatc caagatcatc ggcgttgatc tcaacctga 240
 caaggaggaa gtagggaga 259

<210> 52349
 <211> 140
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-059-Q1-K1-D10

 <400> 52349

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 tgtcaaaagc aggtatgggt accttgatcc ctaattcttc cgcatgcagg agcttttcagt 120
 gaaatccgat gtctactcat 140

<210> 52350
 <211> 170
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-059-Q1-K1-D12

 <400> 52350

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 gatgaactca acgagaacag aaatctcgtg tgggacaaat aggtaaatgc tcgtgtgatt 120
 ctgatttcca ggtcgaatac gagccgtgaa atcgtggact atcgttcctt 170

<210> 52351
 <211> 240
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-059-Q1-K1-D2

 <400> 52351

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 gggcactaac gggcacaccc tcaccgtcaa ggtcgtcagc gccacccccg tgccggggccg 120
 cgcgcgcccc ggcgcacccg acgtcgcttc gtcccgcgcg ccgcgcacatcg ncgagtgcct 180
 cgtccgagac gagaccggcg tcatcgtatt caccgaccgc aacgacccaa gtgatttgct 240

<210> 52352
 <211> 169
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-D6

<400> 52352

cccacgcgtc cgccacgcg ttcaggcttg ttttgtttct ccaaaaaaaaaa aaaaaaaaaa 60

agaaaaggaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaaa aaacaataaa aaaaaaaaaa aaaaacttaa aaacaaaaa 169

<210> 52353

<211> 89

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-D7

<400> 52353

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gtgagattat gaaggctatt gggaagaag 89

<210> 52354

<211> 263

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-D8

<400> 52354

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tataatgagg aatgtgaccg ctttatgctt tgcattgtgc acaaacttgg atatgggaac 120

tgggatgaac tgaaagctgc ctttccgtat gtctccctta ttccgatttg attggtttgg 180

taaatccagg actaaccag agttggctaa gcgggggtgat actcttatca gactggttgt 240

aaagggaat caagaatatg atg 263

<210> 52355

<211> 81

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-E2

<400> 52355
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 ggcgacacct actacgggac c 81

<210> 52356
 <211> 413
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-059-Q1-K1-E4

<400> 52356
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 gggactggaa tggcgtctggg gcacacacca actacagcac caagtcgatg aggagcgacg 120
 gcgggtacga ggtgatcaag aaggcgatcg gcaagctggg cctccggcac cgggagcaca 180
 tcgccgcgta cggggacggc aacgagcgcc gtctcaccgg ccgncacgag accgtcgaca 240
 tcaacacctt cgtctggggc gtcgcgaacc gcggggcgtc agtgcggggtg ggccgcgaca 300
 ccgagaagga atgcaaaagc tacttcgagg accggaagcc ggcgtncaac atggacccgt 360
 acgtggtgac ctgcgtgatc gcggagacaa ccatgctgtg ggagcccagc cac 413

<210> 52357
 <211> 251
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-059-Q1-K1-E5

<400> 52357
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 gccacagctg ccacccgatg aggcggcacg tgtggaggcc gaggttcgga gctacttcga 120
 cagcgtcncg ccaaggcgcc cggccaagcc gccgtgcac gaccgctcgg tggacacctt 180
 cgcggaaccc gccgcggtca acgccgggga ccacaacttg ccggagctcc gcaagctgcg 240
 cgacctctag g 251

<210> 52358

<211> 217
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-059-Q1-K1-E6

 <400> 52358

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 agaatttgcg aggtccagaa agtgaccctt gaggtgattg ctgagtacac cgttcgtacc 120
 cttcagagga ccgtgcctgc tgctgtgcct gctgttgtct tcctctctgg tggacacagc 180
 gaggatgagg ccacccgcaa cctcaatgcc atgaaca 217

<210> 52359
 <211> 87
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-059-Q1-K1-E8

 <400> 52359

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 caccataaca ctatagcata tcatcaa 87

<210> 52360
 <211> 410
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-059-Q1-K1-E9

 <400> 52360

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 aagcatttag cccacaacc atcaacagtg gtcgtggcgc tgaattcgaa ggggctgtca 120
 ttgcactgat ccatctgtcg attacgagaa ccgataaagt ccgtgctctt cgagaggctt 180
 tctaccgcca gaaccttcca aatgtgacca atttgcttgc cactgtcttg gtattcctca 240
 tagttatcta tttccaatgc ttccgagttg agcttccagt gagatcaaag aatgctcgtg 300
 gccagcaagg ctcatatcca attaagctgt tctacacttc aaacatgcc atcatccttc 360
 actctgcgct gattaccaac ctctatttta tatcccagct tctctacaag 410

<210> 52361
 <211> 137
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-059-Q1-K1-F4

 <400> 52361

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 ggtagcatga gaagatcccc ttctgcactc atcgaacggc cgtcgtcacc tagatcaatt 120
 gggaggggta agtggct 137

<210> 52362
 <211> 160
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-059-Q1-K1-F6

 <400> 52362

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 gggatgggaa taatggccgg tctctccacc aagcttttcg tggctcctct cctgctcgtt 120
 tgttacaccg gaacgcaagg cggctccggtg actatgggtg 160

<210> 52363
 <211> 438
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-059-Q1-K1-B1

 <400> 52363

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 agaaaaatat agagttgcag tcatgttctg agaatgcaca tgcagtgttg acagccgaga 120
 aactagagtg gggaaactca gatcatttaa gcggtattat tgaaaaacat cctgggtggat 180
 ttgatcttgt tcttgagct gatatttgct tccagcaatc tagcatttcc tgccctctttg 240
 atactgtaga gaggattggt cgtattcaag ctggtaaagt cagattcata ttggcttatg 300
 tatcccgaac taaagtcag gatgcactag tactcaagga agctgaaaag catggaatgc 360

gtgttgaaga aatgaacgga acaagaacaa ccatctcgaa tcttgaagga gtcataatttg 420
acattaccct gaaatgac 438

<210> 52364
<211> 207
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-B10

<400> 52364

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gctcgcgag caagaccttt aaggggtggt gctaccacag caccaactgc atctccgttt 120
gcatcaccga gggggagatt agcggggtct ggcagcatgg gatttgcattg tgcacctatg 180
agtgtctcac gggtaacgat acttgcc 207

<210> 52365
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-B11

<400> 52365

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ctctcttttc aaacaattgg ttcattatta ttattggtat ggtggtgtta tcgccccatt 120
tgcattaagc tgctcactaa gtcaaagtag taaaaagcca tggtgtgtgc tacctagaag 180
atgttggtga tattcaaattc atagagcttg tgttttgggc tggagatagc acaaaataac 240
tactaaaact atctattatc aagtgatcca ttgcaattt tttcaatctg aactcacag 300
actcactggg tatatttcaa agctgggaag aagctaacga tataccatac ttagactcac 360
tggttaaggt tatgagtgc tgggtttgta aaaaaatat ttcattgtca ccacagtat 419

<210> 52366
<211> 207
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-B12

<400> 52366

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tagcatctaa cattattcgt attttatttt tttctccagt cactgggggt agatctacaa 120

ggcgattata tattatagat ctaatctggc tataattttac gtataaatcc ataaccaact 180

agatcttcat tctgtattta tgaggaa 207

<210> 52367

<211> 349

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-B2

<400> 52367

ggcgcctctt acttatcttt tcgaaagctc ttaaagggtg aagagttatg gagcgcgctg 60

gttaatgcca agggatgaac tggcaataga catatgggat gctgttgagg cacttgacta 120

tgtgctagag cctggatgcg actaggtgcc ataacgcata gggaaacaac tggacgggta 180

tataaactg cgtgtacaac aacttgatgt ccgctgcgaa acaaagacaa aggataatgg 240

cttcgtaaat gatgtggcat ctgtgcaata tcgtgccctt gccgataagg catctgatgc 300

ttttacaagc ttagtgacac catggagcaa actcagtcac atgggttttg 349

<210> 52368

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-B3

<400> 52368

gttggccttc ttcagttctc ccgctgctgc tgccgctgcc accctccgtc cgcgggcaga 60

tgccgccacc ccaatcgatc tgccggccta cagcatggcg gcgggggagg cggcgagggc 120

gaaggcagcg ggagccctgg cgctggcgct cgagctcgcg ctagcagggg ccaactccga 180

tggcgacgcg ctctcggcgc tgcgccgcaa cctcaaggac cccggcgggc tgctgcagag 240

ctgggacccc acgctcgtca accctgcac ctggttccac gtcacctgcg accgcgacaa 300

ccgcgtcacc cggctagatc ttggtatttg aacttatctg gtcattctgt gcctgagctt 360

gggaaattgg agcctctgca gtaccctgga cttta

395

<210> 52369
<211> 333
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-B5

<400> 52369

cggacgcgtg ggggcgtgta caccaagaat aagccggcca accaaccgac tcccccgacc 60
gtgctgatcg atcgagggcc ccttgttcta gccagttgtc cccttccttc tcgccggcgt 120
tgctcctgcc tgctccaatg gccgcgcct tcacgaagac ggcgaacatc cccgcgacga 180
tgccggccgt gcagtaacgac tcctgccggt ggggcgcgcg tggactcaag catgtggaag 240
ttccgggtccc ttccggcga aaagaacgagc ttctgctgaa gctggaggca gcaagcatca 300
accagtgga ctgggaggtg cagaaaggca tgc 333

<210> 52370
<211> 270
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-C1

<400> 52370

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aaggggcaaa acatacctgc agactatcaa taaaagggt tgaagagtgg aggctgatgc 120
aaaggacat ggatgagtgg atgagacacc atcaactccc atctcatctt caagaacgtg 180
tgccgcggtt cgttcaagtc aaatggcttg ctacaagagg agtagaagaa gaatccatct 240
tgcaagcttt gcctgctgat attcgtcagg 270

<210> 52371
<211> 163
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-C10

<400> 52371

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gaacttggat ctgaacccat tcttagagta tggataccaa atgcttcttc actggcggcc 120
ccttcgcaac gctagacatg aattgcttgc ttcccggcag ctt 163

<210> 52372
<211> 271
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-C11

<400> 52372

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aaaaaaaaa aaaaaaaaaa aaaagaaaaa attaaaaaaaa taaaaaataa aaataaaaaa 120
aaaaaaaaa aaaaaataa aaaaaaaaat caaaataaaa aaaaaacaaa aaaagacctc 180
ccattttaaa aaatccatat tattttcccc ttccttccaa cacttaaccc ttcatttaat 240
ctccccaat ttaatttact ttccctattt t 271

<210> 52373
<211> 209
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-C12

<400> 52373

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cgccccaaga ccacgtgcac cacttagcac tcacgtgct cgctcgctcg ctcgtaacg 120
cgcccggtta gagcagggaa ggaaccgtgg gagggatacg gtcggacatg atgcacgcca 180
agtcggagtc ggacgtgacg atgcctggc 209

<210> 52374
<211> 211
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-C2

<400> 52374

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agacattgcc tgccatctgt ttattgacag ggaaatttat cactccagag ctgaataatg 120
gtgccagcct gtggttcatg tcacttttta tctgcatttt tggttccaag catcctagaa 180
atgagatgga gtggtgttgg aattgatgac t 211

<210> 52375
<211> 137
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-C4

<400> 52375

cccacgcgta cggttttgta acgtttgata tagttactgt ccagctacat ttgttagagg 60
cgcatgttga cgtggggccat attagttgtg gctacatatt ctactaagaa gttctcagga 120
ctaatacatc tttctct 137

<210> 52376
<211> 319
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-C5

<400> 52376

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ggtgatgtaa cgggaggaga tgtagggaga gagagaaacc accagaggcg agcgagcagg 120
tgtgggcgtg gcgtggggga ggcgccgagg cggtcggggc cgtagataag agtcgtctca 180
cctcgtcgtc gcagactcgc atcgcacgag aggagaacga gaggggaagg gctatagaga 240
gaaacaaagg tggtcgtaga tgtgagccac cctctttgta tccctcgtca acttcttcta 300
ccaacttctt tttcttcc 319

<210> 52377
<211> 321
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-C6

<400> 52377

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agtgcggaca tacctgcagt ctatcagtaa aaggcttgaa gagtggaggc tgaggcaaag 120

ggacatggat gagtggatga gacaccatca actcccatct catcttcaag aacgtgtgcg 180

gcggttcggt caagtcaaatt ggcttgctac aagaggagta gaagaagaat tcattttggc 240

aagctttgcc tgcgtgaaatt cgtcgggatg tgcagcgtca tctttgtttg gacctcggtta 300

gacgtgtacc ttttttctct g 321

<210> 52378

<211> 222

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-058-Q1-K1-F10

<400> 52378

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aaatgggtgt actcctaaaa tcataaattg cctctccaaa caaaaattag ggcaaggggt 120

taaaattggt attggaagtt aaacctttta aaattcttta cttggcttcc ttaccatttt 180

cctgggtttt atgacaaaaa ttccaatttt tcccaaattg gg 222

<210> 52379

<211> 266

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-058-Q1-K1-F3

<400> 52379

cgtgtccgga cgggaatacc nccacaaggt gcttaagcag atgaactcga gctgcancct 60

cagcgggagg tagactgtaa ccacaagaag tttgccatga aattcggttt ggtcgcagca 120

gtttaggtag tcaacttttc tctagtccaa tccaagggag tttgttttat tctcaggtga 180

atctttccgt ttgtaccgtc aggttggtgt gttcttttga acatttgggc aatgataact 240

aataattcaa ggtcctttac aagtna 266

<210> 52380
<211> 220
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-058-Q1-K1-F6

<400> 52380

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attgctttca tatttcaggc ggcgtcntca gacacctgga ctttttctat tgctttgggt 120
gtcacaaaaa atgccaaagtg tcatttaagg tcttgtgaaa agggggagaa ctattgattc 180
catttattta acttacgggg ttgagcttac tgtacagggt 220

<210> 52381
<211> 360
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-058-Q1-K1-F7

<400> 52381

ggacaggatc ctcaccacca acctgtggtc ttctgagctc tocaacctct cttccggcgc 60
ggccttggt caaaagatgt gctctttnaa ccccatcttc cccctctggg aagccaccgg 120
cgcgaatgtg actgaggtgg cttacgccgt gggcaaggac actaggattg gcccgaagtt 180
cctgaacgcc agtggtgggt tcggtgggtc ttgcttccaa aaggacattc tgaacctggt 240
gtacatctgc gagtgcattg gcctgcccga ggtggccaac tactggaagc aagtgatcaa 300
gatcaacgac taccagaaga gccggttcgt gaaccgcgtc gtgtctcca tgttcaacac 360

<210> 52382
<211> 356
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-058-Q1-K1-G4

<400> 52382

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ggcttactgg gaacttggtta taaaagatat ccaaaaatcc tgccaacttt tttaggccat 120
ctaccattaa acttattggg cttattggta ttttttccta aaaggggtctt cttagggtggc 180
caaagacact taaaggactt gttaaaccgg aaaatgggta cacaaaatgg tcaaaccccc 240
caaaggctac ataaaaaacc caacttcttg aaaaaggggt tctttcattc aagaaagtat 300
tcgttattgc cttaaccgtc aacgcaacc taattttttc aattgcaaaa aataag 356

<210> 52383
<211> 250
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-058-Q1-K1-G7

<400> 52383

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gctgggggtcc tggtecgctgt accgcgccgt gatcgccgag ttcacgcgca cgctgctgtt 120
cctgtacatc acggggggcca ccgtgatcgg gtacaagcac cagactgacg cgtcggcgctc 180
gggcgccgac gcggcgctgcg gcagcgctggg cgtgctgggc atcgccctggg cctttcgcg 240
catgatcttc 250

<210> 52384
<211> 255
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-058-Q1-K1-H1

<400> 52384

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ngtaacaggg cgggcttgga tgtaattat gaggacctcc ccctnngcgc caacaagttc 120
tcggagcgcc agcccatcgg cacggcgcg cagggcacgg acgacaagga ctacaaggag 180
ccccgcgg cgccgctctt cgagcccgn gagctcaagt cctggctcctt ctaccgcgcc 240
ggcatcgccg agttc 255

<210> 52385

<211> 159
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-058-Q1-K1-H10

 <400> 52385

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 gagcgtgcct ggcgcgggct tctagcccta caacacctgg gcggggcgac tccggtttca 120
 gatcggcgac cagctgctgt ttgtgtaccc caaggagac 159

<210> 52386
 <211> 190
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-058-Q1-K1-H11

 <400> 52386

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 ggctgttggc aaagagcttc ctgtccttaa cggaagtgt actggaatgt tttccgggt 120
 cccaaccgtc aatgtttctg ttgttgattt aactgttacg cttgaaaagt cagcaaccta 180
 tgatgagatc 190

<210> 52387
 <211> 245
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-058-Q1-K1-H9

 <400> 52387

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 ttagcacagg ccctctgtca gtcctaata tgagtgttaa gaacaacacc caggtcctca 120
 tcaattgccg caacaacaag aagctgcttg gccgtgttcg tgcttttgat cgccactgta 180
 acatggtgct cgagaacgtg cgtgagatgt ggacagagat cccaagact ggcaagggca 240
 aaaag 245

<210> 52388

<211> 288
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-059-Q1-K1-A1

 <400> 52388

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 acttaaaaac actaatacta ggatagggcc taataaacca tcacaaatta ccatcaacac 120
 taaacactca aaatctagct aactatgcc aatctatgcc ggaaaaataa actaatgcc 180
 attgtttaac ctgacatcct tgttgatggc cctcatgaca ttgaatcggt cgcttacgtc 240
 actgacaccg tccatgctgt ctgctacaat gcgctcaacg agcaccat 288

<210> 52389
 <211> 115
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-059-Q1-K1-A10

 <400> 52389

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 gcaattatcc gatgaatggc aatcttctct taatacctcg cgggacttgc atggc 115

<210> 52390
 <211> 255
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-059-Q1-K1-A12

 <400> 52390

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 gagaggtgat cgctgagatg accggcggcg gcgtggacta cagcttcgag tgcacggcg 120
 tgccgtcggt gatgaccgac gccttcagat gcaccaagat ggggatgggc aagacgatcg 180
 tgctggggct ggtgaggac agcgacgatg tgtgcctgcc gtcgctggag ctgctgttcg 240
 ggaggtgcgt catgg 255

<210> 52391

<211> 134
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-059-Q1-K1-A3

 <400> 52391

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 cataaatact ataa 134

<210> 52392
 <211> 93
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-058-Q1-K1-B10

 <400> 52392

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 tagatccatg gtcataataa agtttttggtt ttc 93

<210> 52393
 <211> 112
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-058-Q1-K1-B4

 <400> 52393

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 gggcgccaat atgatttttc ggactccgat accgagcctc gaaaggcagg aa 112

<210> 52394
 <211> 217
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-058-Q1-K1-B8

 <400> 52394

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tatatatcta aaacctaaag aatgttttta aataaaaaat gtctggaaac tttnttaaaa 120
 aaaccttacc aaaaaaaaaa tcaaaaaaaaaa attaaaaaat tccttagaag taaatcccct 180
 aaaaaacttt ataaaaatta tccataatac acccctc 217

<210> 52395
 <211> 144
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-058-Q1-K1-B9

<400> 52395

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 cccacttgta tgctgcatcc cacaatggat tttatgatgt ggaccccgaa tgttttgctt 120
 atacaatgtt tgctatgctt cccc 144

<210> 52396
 <211> 56
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-058-Q1-K1-C1

<400> 52396

cccacacatc caacctcacc ttcccttact taccatccct actttctctt ctctct 56

<210> 52397
 <211> 284
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-058-Q1-K1-C2

<400> 52397

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 ctatcggcgc accctcacct aattctattn aaaacttttn atttaccac aaaaaagaaa 120
 aaaccaacat gtaatcctca cctactggtc taccttatct accgtccact taattataac 180
 caattttttt tattttttta aaaaaaaaaa aaaaacnnct gcctgttttc ccaaaaaacc 240

caaaaaaaaaaaa aaaagtctcg accnttttng gggccaagc ttac 284

<210> 52398
<211> 139
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-058-Q1-K1-C3

<400> 52398

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tttattaaaa aaaaaaaaaa aaccgcggaa gaaattttaa aaaaaattgg ccccccccc 120
caacaacttt aattctaaa 139

<210> 52399
<211> 273
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-058-Q1-K1-C4

<400> 52399

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agccatattt aaaaaaatag gggccccccc tcttaaaatt tcaatcctac cttccccttc 120
catccacacg aaaccnctt gnctagtag ccttctatat atatattttt ttccccnnn 180
nnccaacggn ngaangggaa aaaccgggg gaacccaaaa taaaaaccct ccaaccaat 240
ccccctttgc ccaattgcca aaaaaccaa aag 273

<210> 52400
<211> 238
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-058-Q1-K1-C8

<400> 52400

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ggtttaacca aaactttctc ccaccctata taaatctttt caaaactttt taaaaaccaa 120

aaaaaaaaaaa aaaaccccc tttaatcctt aaataccggt ctaacggaat taccgggac 180
 ctaaataaaa attttttttt ttttttnaaa aaaaaagaaa aaaaaaaaaa ngggggaa 238

<210> 52401
 <211> 316
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-058-Q1-K1-D6

<400> 52401

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 taccatgtac tagagctaaa tcgtcccnac acctacagtt ccacctacct agacctacac 120
 aaggactaac gcaagatgta ccttatgaag aagatcccc tttgcaagca caacgacaag 180
 ttccatacga cctcttacca tgagatgtcc ctgatggcaa acctcagcaa cccgtacatc 240
 gtcaaataca aagacggatg ggtataccag gggaccatca tctgcatcgt cacaagctac 300
 tgctaaggag gggaca 316

<210> 52402
 <211> 206
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-058-Q1-K1-D7

<400> 52402

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 gacaaattta aaccactgat tacctcctca tacaaattta aatccaacag ggaacataaa 120
 cctgataggg gctttcaaaa aactttttac taacttgaaa atatataac cttaaagtct 180
 tcggcaattt ttacaaccc catggg 206

<210> 52403
 <211> 242
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-058-Q1-K1-E11

<400> 52403

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ttctccagcc gcggacgct ctacgagtac gccacaaca gtgtgaaggc tacgatcgag 180

aggtacaaga aggcacacgc ccgtggctct tctctggcc cccactctt agagcacaat 240

gc 242

<210> 52404

<211> 108

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-058-Q1-K1-E5

<400> 52404

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ggtcgctaac ctcaacatca gccagtgcac cgccctgaca cccccggc 108

<210> 52405

<211> 169

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-058-Q1-K1-E7

<400> 52405

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ccaaatataa gtttggcggg gacgccgcc ccgcaactgc tcatgcgaag gataagctga 120

tgcanaagca ggagaaactg gagagaatta accaacaac cgcgagct 169

<210> 52406

<211> 242

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-056-Q1-K1-G8

<400> 52406

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 agatttacag cagaaagctt ggaaaagaac aagcagatgt tacctgaaaa tagaagaggt 180
 ggggaggaag taccagtga acccagctca actagctcta gcctgggtgc tgcgacaagg 240
 gg 242

<210> 52407
 <211> 349
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-056-Q1-K1-G9

<400> 52407

actcgtccca agggcaacta catcttcttg tcacacgctt tcccttacac aatcctccct 60
 tctcactcag tncagtttaa caccaccttt cacatcccct tcccctctc ctactcatac 120
 atcaatccct atatcctccc attctacaca taactaacca cttcaattat gtctaacatc 180
 ccactagtcc gttaactcta tattaccaga atacttatcc tctctcccct cctctaattc 240
 attctcctat acccatccct attcacaaca aacaccctcc atatgaacca ccttatttac 300
 ctcataacaa acccttcac gttcaatac cactccatca taacctact 349

<210> 52408
 <211> 394
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-056-Q1-K1-H10

<400> 52408

gcagaatata gagcttttct agaatcatgt gacttcatca aggcaagtac tcagtggaga 60
 gaagttcagg aacgtctgga ggacgatgaa cgttattccc gacttgagaa gtttgatcgg 120
 ttggatattt ttcaagagta cattcgacac ctagagaaag aagaggaaga gcagaagcgg 180
 gtacaaaagg atcaagtgag aagacaagag aggaaaaacc gtgatgggtt tcgtaaaatg 240
 ctggaagaac atgttgctga tggcacactt aatgcaagaa cttcgtggcg tgattactgt 300

gcacagataa aagattcaca gtntacttg gctgtagcgt caaacacatc tggctctaca 360
ccgaaagaag tatttgatga cgtgatcgag gaac 394

<210> 52409
<211> 225
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-056-Q1-K1-H11

<400> 52409

ctcacgcac cggagcaact gtcctatatt cttgtatacc tactgtaaac tcgttgctag 60
gctggcgaat caacaatggc gcgttcataa gcaactgtaa acggatgcga cactcggaaa 120
tacagttgct taaaaacagg cgcagacttc ttcaccggaa tgctagctgt tacctactga 180
tgtgcaactt caagcaattc acgccttgcc tgatattgct gaact 225

<210> 52410
<211> 297
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-056-Q1-K1-H12

<400> 52410

cttgggcgta cgcggacaca gccccgatcc gaatcgctgt ccttgcgagc ctcgccgatg 60
ccccggtccc ctccccctgc ttcaagatgc agatctttgt gaagaccctc accggcaaga 120
ctatcaccct cgaggtggag tcttctgaca ccattgacaa tgtcaaggct aagatccagg 180
acaaggaggg catccctcct gaccagcagc ggcttatctt cgccggcaag cagcttgagg 240
acggacgcac actnctgac tacaacatcc agaaggagtc aacctncac ttggtgc 297

<210> 52411
<211> 339
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-056-Q1-K1-H2

<400> 52411

ccgggtcgac gggagccacg cgtccgatta tctcgccgtt cccatggaca tcgatctctg 60

gcgctagaca tgctaagagg caggcttgat cagtgcgatg tatgaccgaa tggaggcttg 120
 agggattgaa ccatcaataa caagcaacgt gcttcttctc attacttata ttgtgcacgc 180
 tgttttacgt tcaagagatc aatcaaagcc tctagaactg agaggagaag atatccaagg 240
 tcggaaggct ggaaagctct ggattggaga tctaactgcc tcgtgtgcaa gtggtatcaa 300
 acacatgata gacttacaac atgagggaga ggagataga 339

<210> 52412

<211> 344

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-056-Q1-K1-H4

<400> 52412

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 agacaaatct gataggcaga gcaactatat gaaaaaggat aatggctctg agacaagtcg 120
 gggtgggtat aagatgcagc aggcaaagca gctgcaacag caacaaagac cagcatctgc 180
 ttcagcctca tcaaggcaat ctgaaaagga aagttcttgt gatgatgtag aaattgatgc 240
 aattcttgag gaagaggagg ccctcattgc agttcacagg aaggagatcg agaatactat 300
 ggagattgtg cgggaagaga tgaacctttt ggcagaggtt gatc 344

<210> 52413

<211> 291

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-056-Q1-K1-H6

<400> 52413

gaaagtcaca aaagtctcac ctctgggca tagggctctt ccccgacatc gaccttgacg 60
 ccctgctcgc cttcttctcc ggggaccccg ccgtcgtata cggcctcatc atcccgctcc 120
 cgactacgcc ggcgcggcg accgcgcacg atgcggaggc ggtgtcgccg gagtctgtga 180
 ccttccggac gaaccgctc ggggaggtgg cgctctcgga gatcgagagg ctgctgatgc 240
 aagacgctga ggccgaactg cacgaagagg accatgggaa caacggagac c 291

<210> 52414
 <211> 221
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-056-Q1-K1-H8

 <400> 52414

 cgttcccatg gacatcgatc ttttccccga catcgacctt gacggcctgc tcgcctcctt 60
 ctccggcgac cccgccgcgc tctccggcct catcatcccg tccacgcctc cgccaacgcc 120
 gtcgacggcg cacgatgcgc aggcagtgtc gccggattct gtgacctccc ggacgaaccc 180
 actcgatgag gtggcgctct cagagatcga gaggtctctg a 221

<210> 52415
 <211> 410
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-056-Q1-K1-H9

 <400> 52415

 cgggatcacc cttcgcaacc atatctcacg gatccttcgg cgccacttta agggcaaacg 60
 gtacgggtgct gatctccttg atttgttcaa tgagggttag ttcaagacag cttcagggtca 120
 gctgctggac cttatcacta cccatgaggg agaaaaagat ctaacaaagt ataacataac 180
 agttcacggc cgaattgttc aatacaagac agcctattat tcattttatc tgccggttgc 240
 atgtgccctg ctgctctctg gcgagaattt ggacaattat ggtgatgtag agaacatcct 300
 tgttgaaatg ggaacatact ttcaagtcca ggatgactat ctggattgtt atggtgatcc 360
 tgaatttatc ggcaagattg gaacggacat tgaagattac aagtgtcat 410

<210> 52416
 <211> 217
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-058-Q1-K1-A10

 <400> 52416

 aaaaaaaaaa ttttttttaa atatnganan nnaaaaaaaaaa gggggggaat tttttaaaaa 60

gaacgccacc ccccccccn ccnctacaac aaaccaaaaa aaatatatta aattttctttc 120
 tccaatgggg ggcccccggt taaaaaaaaa aaaatTTTTT ttcccgcca tccaaacgaa 180
 aatccttttc ttttcgcccc cccaaaataa attaacg 217

<210> 52417
 <211> 254
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-058-Q1-K1-A2

<400> 52417

tcaatcccaa tccaccgct aggtcgcaaa ctcaacacac antcaggctc gaacctcttt 60
 ctcgctccgaa tccacaactt ccatccatgg cagtgtcacc agggatgggc ttctccgtcc 120
 gcccgccggc tccggccccg cctcgcgctt gctctgccac ggcgagggcg cggccccgtcg 180
 gcgactgccc caagtgggtg ccgccgctgc tgggggtggc cggccagccg gactacatcg 240
 acgcgcggcc ggcg 254

<210> 52418
 <211> 378
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-056-Q1-K1-G4

<400> 52418

gaagggcagg gacatcggt tgtcagaggc cagcctagac acaatccgcc gtgcgcacgg 60
 ggtgcgttcc atcacgccg tgcagatgga gtggtcgctc tgggcccgag acatcgagcc 120
 cgagatcgtg cactctgca gagaattggg gattggaatt gtggcttaca gtccaattgg 180
 ccgtggattt tttggtggaa gaggagtgat acagcaagtt ttttctgaat ctagtctgca 240
 aaggcatcca agatttacia cagaaagctt ggagaagaac aagcagattt acctgaaaat 300
 agaagatttg gcgaagaagt accagtgcag cccagctcag ctagctctag cctgggttct 360
 gcgtcaaggg gatgatgt 378

<210> 52419
 <211> 199

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-058-Q1-K1-A4

 <400> 52419

 cccacacatc ccaacacgcc tctctatagt attaaatctt acgcacacgt tctagcggag 60
 gcatacttac ataatcgtgc atgctacatt atatctactc tatagtgtca tacaaattca 120
 atacattgaa caccctttca catacccaag taaatggaaa accataacat taccattttt 180
 actaatcttg caatacata 199

<210> 52420
 <211> 85
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-058-Q1-K1-A8

 <400> 52420

 acgcgtccgc ctacgcgttc ataccctctc cggaattctc tgaccctatc attgcgaaaa 60
 aatgtagggg aaagccggac ataga 85

<210> 52421
 <211> 256
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-056-Q1-K1-E2

 <400> 52421

 cattcactcc catccatcat atatccttac tacatcactc acatttcttc acaaacccta 60
 ttcttatact ccaatatttt cctcaaatat ttattcattt ataattctaaa tctccctatt 120
 atctacacca accatcctct attctaatta aaatatcaat tattctcaaa tcaataatct 180
 acattctatt catccacaac tcaatcaaaa ctttctccat ttcatcttat taatcattac 240
 aattttctta ccccac 256

<210> 52422
 <211> 60
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-056-Q1-K1-E3

<400> 52422

acccactcat cccaacatag cctttatcta ttcctgtcaa tttattcttc ttacataatt 60

<210> 52423

<211> 384

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-056-Q1-K1-E5

<400> 52423

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catgaatgac tgattctcaa agcatgctg agctacatag attggttcta gtcgatacac 120

cactggcccc ttactttctca gagtgcatta catctgagga tttggatgac atgaatattg 180

agattatgag gaacactctc tacaaagcat atcttgagga cttctacaaa ttttgccaga 240

aactaggtgg tgcaacagct gacatcatgt gtgatctnct ttcatttgaa gctgacagaa 300

gagctgttaa cattacaata aatagtattg gtactgagtt gacaagagat gaccgtagga 360

agctgtactc caactttggt ttat 384

<210> 52424

<211> 85

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-056-Q1-K1-E6

<400> 52424

catatatcct tactaacacc actcacactt ctccaacaac catacactta tacttcaaac 60

attaactcca aatatcacia cactc 85

<210> 52425

<211> 180

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-056-Q1-K1-E8

<400> 52425

ttgcttttgggt ttttgcacac tttacggcgc atggggccttg gtgagagaag gggttgctact 60
atgaaaaaga aagggttcaag cgtgaatgca gcacaagcta tgatcgttca agtaagttta 120
gatgttacac tttgcggtca ttcgacataa tctgtgtatg ccataccatg acctcttatg 180

<210> 52426

<211> 387

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-056-Q1-K1-F1

<400> 52426

ggcggctctc tttatccttc tagggatttt cctgatacta acatcaacat cgtattggcg 60
caagatgact acaaaagcaa tcattcagct tctgttcttt gctttggttt ttgccacatt 120
tacggcgcacat ggggcttggg gagagaaagg ttgctacgat gaaaaaagaa aggttcaagc 180
gtgaatgcag cacaagctat gagcgtncaa gtaagtcttg ttgcgacact gtgcggtcgg 240
tcgacatggc ctgtgttcgc cgtacatga cctccgagga ggaaacggga ttaagtgttc 300
aaaagatctc ttttctttca atggcttgca acaactcatt gcgagtcgtc gggaaaaaat 360
acggagatat tcctaaacga ccaatgt 387

<210> 52427

<211> 299

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-056-Q1-K1-F10

<400> 52427

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gcagagcttt ggagaacctt tttttatggt tattcgtgag gatgagaccc tatcttctat 120
caaagaacgt atacagaaaa agcttaaggt tccagatgag gatttctcaa agtggaagtt 180
tgcatacatt tcaactcggtc gtcttgacta ttttgaagat tcagatactg tagccctaaa 240
attccagaga aacatgtatg gagcttggga gcagtatctt ggactggaac atnccgaca 299

<210> 52428
<211> 321
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-056-Q1-K1-F11

<400> 52428

accactcgt ccgaaaaaat aaaaaataa atatataata aaaattacat aaaacactaa 60
aaaaaaaaa acaaatgaaa agctaaaaaa aacaatttaa atataaatat aaaaaaaaaa 120
tcaaacccta tctatatctc aaagaactta tacactaata tcttaaagtt ccagataatg 180
atttctaaaa atgtaatatt gcatacatTT cactcattca ttctgactat tctgaatatt 240
cagatactgt cgcctaaaaa ttccatataa acatttatcg agcttggttag caatatatac 300
tacttataca tccttacact t 321

<210> 52429
<211> 220
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-056-Q1-K1-F12

<400> 52429

ggccacctcg cctactccca caccaaccag gcgctcctcc gcccaggtc gttcgggcc 60
gaggacgagg tggtctgcct gttcgagggg gtgctggaca acctgggtcg tctgagccag 120
cagcacgggc tgtcaagcaa gggcgccaac gaggtgctcc tcgtcatcga agcctacaag 180
acgtgcgcg accgcgcgcc ctaccgggcc agcttcatgc 220

<210> 52430
<211> 297
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-056-Q1-K1-F2

<400> 52430

ggggggctgg ctttatcctt ctagggattt ttcttatact aacatcaaca tcgtattgtg 60
gaatgatact tcgaaaggtt gattcacctt ctgttctttg ctttggtttt tgccacattt 120

acggcgcatg gggcttgggtg agagaagggg tgctactatg aaaaagaaag gttcaagcgt 180
 gaatgcagca catgctatga gcgccaagt aagtcttggt gcgacactgt gcggtcggtc 240
 gacatgtcct gtgttcgccg taccatgacc tcctattatg atacggtatt aattggt 297

<210> 52431

<211> 78

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-056-Q1-K1-F3

<400> 52431

ccaaaccgac ccactcaacc aatcggtctt ctttaccctt ctattgattt ttcttttact 60

aacatcaaca tcgtatta 78

<210> 52432

<211> 189

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-056-Q1-K1-F6

<400> 52432

catctaccca tacacttcca taccttcata aatacacaac ctatattccta aatcacatca 60

aattgatcca taaatcttac tccattcata caactcacta atataaactc atttatctta 120

catcaaccac atattaatca aacatatata tatcccatat aaacttaaca tcaataactaa 180

ctactcatt 189

<210> 52433

<211> 303

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-056-Q1-K1-F8

<400> 52433

aggctgacct tcccaggagg cgacagatcc agcttcctgc ttatcttggc tcatggattt 60

gtttggcttc caaatgggtc gatggctcta aaatagtcag aatcacatga catctgtgct 120

atagatatgg acctcagtgg ttttctccac attaggaaag ctggaagagc cgttttgaac 180

tcaatTTTTt tgctaacatt ggtgttatgg tgaacatat ttttgtgtgt atgtaccaac 240
aactaaaatg taaacacgac attatcatat ttgattacag gaataattat ctcttatatc 300
tta 303

<210> 52434
<211> 402
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-056-Q1-K1-G1
<400> 52434

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gcggtgact gacactgatc tatatagtct gtgtggcact gtacactgta ccagttctgt 120
atgagaaata tgaggacaag gttgatgctt ttggtgagaa ggctatgact gaactgaaga 180
agtattatgc cattttcgat gagaagtgcc tatcgaagat tgcaaagggc ccccttaaag 240
ataagaagca ctagattggt agtaaggat ttgctatgaa tcaacatcta cattatgtca 300
ctagctgaca cctctatctc tgaaggattg tgctaggtac tggctcttag ttgatagtat 360
ataatctgta tgtgcaactt ttgtgtgact gacagtttgt tg 402

<210> 52435
<211> 463
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3079-056-Q1-K1-G10
<400> 52435

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atcgtgccgg agaggagaag ctagctaagt agcggcagct ctggttgtgt gtgtgtgtgt 120
ggagggtagc tgcagctggg gctagctgga aaggtcggga gccatgggga ggggccgggt 180
ggagctgaag cggatcgaga acaagatcaa ccgccaggtc accttcgcca agcgccgcaa 240
cggcctgctc aagaaggcgt acgagctctc cgtgctctgc gacgccgaag tcgcgctcat 300
cgtcttctnc aaccgcgga agctatacga gttctgtagc ggaccgagca tcacgagaac 360
actngagagg tacgaaaaaa acagttatgc angcccagat actgctgtac agaacaaaga 420

gaacgagtta gtccaggaca gccgcaatga gtaccctaaa ctg 463

<210> 52436

<211> 443

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-056-Q1-K1-E12

<400> 52436

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ctctgccttc eggccgcggc aatggcgctg gggaacaaca acaagcagag gagcgaggag 120

gagtggcgcg tctactctc ccctgagcag ttccgcctcc tccgcctcaa gggcaccgag 180

ttaccgggga caggagagta caacaaattc tacggcgacg gggtttataa ctgcgctggc 240

tgcgggactc ccctgtacaa gtccgccaca aaatttgatt ctggctgcng ctggcctgca 300

ttctttgagg ggcttncagg agccataaac cgaacaccag atcctgatgg taggagggta 360

gagatcacat gtgcagnctg cggtgggccat ctggggccat tngtcaaggg tgaaagcttc 420

aagacaccta ctgatgagcg cca 443

<210> 52437

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-056-Q1-K1-G11

<400> 52437

cttgggtgcaa ccgtcgttac gtatcccctt ctagttgtta aggcaagact tcaggcaaag 60

gacatgatta acgatgacaa gaggcacgc taaaaaggta cacttgatgc gttcaciaag 120

atggtacgat atgaggtct gtcagggatg taaaaaggaa tgggcacaaa aattgtgcaa 180

agtgtttttg cttctgcttt gctttttatg attaaggagg agctggtgaa ggggtgctga 240

ctattggtaa ctggtaacac tagtctgggt aagaaactac catcaaagtc atcaagatga 300

actacgggca tcgcaagcgt tagtatatca tcttaaaaag ccatttatta tccgcataaa 360

ccgtaaaciaa ggtcgacaag ctatagagct cgcctctgct ttggatatgt caactgtagg 420

ttacacaa

428

<210> 52438

<211> 328

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-056-Q1-K1-G12

<400> 52438

cccacgcgtc cgccacgcg tccgcggacg cgtgggggggt tggtttctcc tccccctccg 60
gttcgggttc gggttcgtga ggttctccgg ggttcggggt cgtgggtgag cggatcgaga 120
tggcggcgtc ggatgttgag taccgctgct tcgtcggcgg cctcgcctgg gccacggacg 180
accactccct ccacaacgcc ttcagcacct acggcgaggt cctcgagtcc aagatcatcc 240
tcgatcggga gacgcagagg tcccgcggct tcggcttcgt caccttctcc acggaggagg 300
cgatgcggaa cgccatcgag ggcattgaa 328

<210> 52439

<211> 258

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-056-Q1-K1-G2

<400> 52439

cccagagtcga ccgacgggtc cgaagggcaa gtacatctcc cttctcttag gctgggtttt 60
cgggcgggta cagagctgaa gcgaccgggt gacacggtag gttggaggca ccgtcgact 120
gtacactctg ccagttctag atgagaaaca tgaggacaac gtacatgcac tcggtgagaa 180
ggctattaat gaactacagc ggggttatgc agttcacgat gataattgcc tgatatacat 240
agctatgcac ctgcttaa 258

<210> 52440

<211> 201

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-056-Q1-K1-C10

<400> 52440

gagaccgaat actcagtgaa tgttgtgaag catatTTTTg atcgacatgt tgtgctccaa 60
gacaggctga ccaatacaat tgctgaacaa ttgcttgaac aggttattgt tttggttgat 120
gcttctgagg ctgacgaatt tttagaagtt gcttcaaagc ctttagaatc attaccatat 180
gattctcctg ggcagacctt t 201

<210> 52441
<211> 278
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-056-Q1-K1-C6

<400> 52441

ctactgctca cttaattcct cgatcgaccc atgcgttcgt ctactgcac catccacaca 60
tccgtctacc cttctctaaa taaatttaac actaaatgtg aggtttataa aaaaactaat 120
acaacaaaat aaataactac tacacacaaa tattcaaaat cccaattatg ataaaattgt 180
aaaaagaagt ctattactac cttaaaaaaa gtttgatata acccttaata agatccactt 240
tattccaatc tattcttttt aatgtgacaa cattattt 278

<210> 52442
<211> 346
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-056-Q1-K1-C8

<400> 52442

attccccgac ccaccactc ttccgcaaca aacactaaat acccataaaa tctattttaca 60
aaaaacaaaa aaaaacacca aagaacgctt acataataaa attaaacaac cccctaccta 120
cttactaacc tcacctccca actttcaacc accctaccta acactccaca ccctacaact 180
taatcacttt cctataaaact tcccaaattc aatatcactc tccttctttt caaacttacc 240
tatcttcaca aaccctaact tatcccaact aaatcccata acactacatc ccccttatcc 300
cacttttcct aatacccaaa atccccaac caatctcctt ttcaaa 346

<210> 52443
<211> 366
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-056-Q1-K1-D11

<400> 52443

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gtgagggttg aattaccact tcctctcaac cgtaccactt acaagggtcg cctctcaagc 120

ctgatatcca tcgcacaagc cctgctgggt gcagcccggt ctaatcagaa acccctgctc 180

tctcttcgcg ttgagggtcc agtttctctg tcctcgactc cttccatgtc tccaaggac 240

aagctcaagc tcaaacggtt ggccccaggc caagtggagc tcttctcaca agcgggggca 300

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tctctg 366

<210> 52444

<211> 326

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-056-Q1-K1-D12

<400> 52444

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tcacagccat ggaatagagg ctgggttcgc atcaatgtc agccctggcg caaaggagtt 120

cagagtgacc cacatggaac tgatcaaagg aatcaaaggt catggctacc atgatgaatt 180

gggcattcct attattgaga ataccctta tgagtatgag ctactgact acctaatga 240

ggcgattgca gcatacccaa aggcaactgc tgtgcttgag acgaaccacg caatatatat 300

atgggggggag ccttcgatca atgcct 326

<210> 52445

<211> 184

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-056-Q1-K1-D2

<400> 52445

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ttctggagtc agttgactgt gaagttgaca atgaaaagat ggaactcctt ctgtcccaac 120
 tgagcagtaa ggacattacc gaactcattg cttctggcaa gtagaagtta gcttcattcc 180
 catg 184

<210> 52446
 <211> 454
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-056-Q1-K1-E10
 <400> 52446

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 cgatgcttcc ttagattttt tgtcttttagc gtaataataa ttattaaaat taaaatctcg 120
 ccaaacgtgc atttgtggag tggagacact agcagatgac ctcattccaa atcaaact 180
 tcggagcaca atcagcaata tggtgggaac acagacaagc agtgggtgta gtggtacaac 240
 aagacacaga agttcgctcg gcagcaaccc taacccaaaa tacagagcca cactgcttct 300
 gttgcgtcag caggggaggt gaagcagtct atagaccatc agctaccagc ggtatctgca 360
 cctgattatg tgctccaggg tgccacagga agtgacctgg tgaaccagcc tctagagaaa 420
 tagcagccac tgctgaaatc ctagcaaata tgaa 454

<210> 52447
 <211> 423
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-056-Q1-K1-E11
 <400> 52447

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 tgggtgttgct gccggcttga agggagatca tcgtctctgg tatcggctca cgcttgccgcg 120
 gtccctcacc tagagggccg cacggcagtg gagcgacgtt gctacgaggg gccatgtgga 180
 tgcgcaatgg tcctcatgtg ctggcgagta tggtgttctc tgggtggtgct agtcgtcgat 240
 cggctgttgt cgtcctagcc gttatagcct gcgtcatgtt tgtgtaatcc gaccgggctg 300
 tgttgggcca ttggtattga tctacccttt tgtaatctcc gntctgcttt gtgtaatcct 360

actgcccatt ttgagccatt gatctaataa aatcangtgg tgattgctcc cncgttgacc 420
gtt 423

<210> 52448
<211> 296
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-056-Q1-K1-C1

<400> 52448

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cttcgactgt ttagatctaa gggttggggg ggcccgccct gcctatgatg atggaaatag 120
gtctagagag aggattcaga actgcattga gtgactttgt acttatgcag ctccagttag 180
catctgtgtt cttcacattc tctcttggga ccaaaactca ctactactga accacactgc 240
tacattgagg agctgaatat agagctacag tgcgtggatt tgtggtgttt catgcc 296

<210> 52449
<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-H8

<400> 52449

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catgctctcc ttgcgttcac tcttggagtg aagcagatga tttgctgctg caacaagatg 120
gatgcaacga ctcccaaata ctccaaggcg cgttatgatg agattgtgaa ggaagtctca 180
tctacctca agaaagttgg gtacaaccct gataagattg cctttgtccc catctctggt 240
tttgaaggcg acaacatgat tgagaagtcc accaaccctg actggtacaa aagcccgacc 300
ctgcttgaag ctcttgacca gatcaccgag cccaagagac cttcggacaa gccctgcgt 360
cttccct 368

<210> 52450
<211> 260
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-056-Q1-K1-A1

<400> 52450

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aacttaacac catggaagac cnacccaccc accgtcatct ccactctcat ctctctactc 120
caccgccacg acctgagctc taccatcgct cactctctcc actccaccta cctatccctac 180
cagtgaataa accatgacat ctttccccac gttctttctac cccctctact gccctcatca 240
tcaccttcat ctctaccacc 260

<210> 52451
<211> 300
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-056-Q1-K1-A12

<400> 52451

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acgtcgggca aagccaggag atcgctccca cctcttccaa cagctacaac ggttcattgc 120
agacagtcca catgaaaatg gagctttgag gcatggccgg ggaaaaagaa agaaagaaaa 180
ccccagtcgg aagctcgacg ccgtcgctcc cctgtacat acggagaaga gaggacacag 240
ctcgcaccgg aagcagcggg ctcttggggg gtccaatcca acctaacgac gttggcccct 300

<210> 52452
<211> 273
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-056-Q1-K1-A2

<400> 52452

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ccgcaagtaa ttcgtcagtg aggacggcgc tcaaggccgc gacggccgcy accttcggcg 120
ggtcgatgct ggtgctgtcc gggctgatcc tggccggcac cgtgatcgcy ctcacggtgg 180
ccacccccgt gctggtgatc ttcagcccgg tgctggtgcc ggccggcacc gcgctggcgc 240

tcattggcggc cgtgttcggt acctccggcg gcc

273

<210> 52453

<211> 320

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-056-Q1-K1-A5

<400> 52453

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cgtggtgacg gcgctcaagg ccgcgacggc cgcgaccttc ggcggtcga tgcgtggtgt 120

gtccgggctg atcctggccg gcaccgtgat cgcgctcacg gtggccaccc ccgtgctggt 180

gatcttcagc ccggtgctgg tgccggccgg catcgcgctg gcgctcatgg cggccggggt 240

cgtcacctcc ggcggcctcg gcgtcgctgc gctgtccgtg ttctcctgga tgtacaagta 300

cctgaccgtc aagcacccgt 320

<210> 52454

<211> 155

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-056-Q1-K1-A7

<400> 52454

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tcacctgat cagctcact acgaccacca ccagctatt catctccaat cccaaacaat 120

acactgcact caacattaat ccgactacca aaaat 155

<210> 52455

<211> 425

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-056-Q1-K1-B1

<400> 52455

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atgtgaacaa catcaaggaa gagatgcgca ggaagcaggc tcatgctgct caggaggcgt 180
acgaggagga cgacgagatg cctggcggag cccaaagagt gcagtgcgct caacagtaag 240
cagactacca aaatgggatt caaggcactt tggttgctct tcaattatgc gagtgcgcct 300
gtggactgta tggttctatg gttttgctgt cgctgagcta caaagtanga agctgatgcg 360
cccctggctc tgcaagcggg ggaatgtatc cttttttgct gcaactgaaa aatgctaccc 420
aggca 425

<210> 52456
<211> 363
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-056-Q1-K1-B10
<400> 52456

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ggtagtggac actgcccaca ccgctatcta cagcatcgag aacagtcttg gagagtacag 120
ggacaagatc ccgggagatg ttgcatctga gaacgaggca gtcacgctg accttcgcca 180
ggagatagga ctcggatgac atcgagaaga tcaagggtcaa gcttgatgct gccacaagg 240
ctcgctcgaa gattggctcag cacatgtcaa gtgggtggctc tggcgactca cagtcagcat 300
ctggacctca ggggtggccgt gaccagtcgc cggaggcaga gtatgaagag gttgaaaagt 360
gag 363

<210> 52457
<211> 439
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-056-Q1-K1-B11
<400> 52457

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gcaagggccg cagcggcagg ccacgcattc ctctcccttc cttctccccg ttctccgtgc 120
aatctcggcc gtttccgctc ccgccatgc catggaggag gccaaagggtg tggagtcaca 180
ggacgggacg atctcagttg cttcagcatt tgctggatcat caggaagctg tgcaagacag 240

ggaccacaaa tttttatcaa aggcagtgga ggaagcatac cgaggagttg actgcggcga 300
 tggaggacca tttggtgcag ttgttggtcca taatgatgaa gtaatagtta gctgccataa 360
 catgggttttg aagaacactg atccaactgc gcatgctgaa gtaactgcga taagaaaggc 420
 ttgccaaaag cttgggaaa 439

<210> 52458
 <211> 401
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-056-Q1-K1-B12
 <400> 52458

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 gcatgtatgg ttccacagaa gagcctgaga atgcattatc gaatctcaat ggagctatga 120
 gttctgaaac ctttttttct tccccttgct gctcgcggca tagcatttgg aaattgaagt 180
 acaatttgtc tttcaggata tactgaattg atttatcatt gtctgcagg acttggatga 240
 tagatccgtg ttacgatacc agcatcaaag ccgcctagaa gcaataactga actttcactt 300
 gagatgtgag taaagttgtg tgggggcctt cgctctccga aggtcctcaa aaacatgatt 360
 tgacaatggt ttccaagtgg attatgtgaa caggtacctt c 401

<210> 52459
 <211> 434
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-056-Q1-K1-B2
 <400> 52459

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 tgggccaagt gtgggcagtg agactaatgt tgatggacta atgttggatc aagaggcttg 180
 tgaagttcag tctccacctt ctgttacgtc agtatataga agtgggaaaa agcggaagaa 240
 aagtcaagtt gcaagtgttc tggatgacta tttggagcac aagaagaagc aaacacagaa 300

gattatggag gtgttacttg agaagaagag tcgtgaagag gagtactcta tcgagaggtg 360
tctcgacaca gttgatgtta tggaggactt gacggatgan gagaaggccc ttgcagcana 420
ngtgttcaag aatg 434

<210> 52460
<211> 251
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-056-Q1-K1-B5
<400> 52460

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cgaaacgaaa aatttaaaaa ttgaaaaaac ccacccaatc taacacacaa ccatacatta 120
caagaacaac atctactaaa ataacctcca taaacaacac ccatcccact taaaaatcct 180
acctacacga ccactaaaac actctcacca cccaacaat ccacatcact caacattaaa 240
cacactacca a 251

<210> 52461
<211> 434
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3079-056-Q1-K1-B6
<400> 52461

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agcatctgct gttgaaccgg tgcaacatgt accaagagcg ggcagcgaga tcaatgttgc 120
tgggccaagt gtgggcagtg agactaatgt tgatggacta atgttggatc aagaggcttg 180
tgaagttcag tctccacctt ctgttacgtc agtatataga agtgggaaaa agcgggaagaa 240
aagtcaagtt gcaagtgttc tggatgacta tttggagcac aagaagaagc aaacacagaa 300
gattatggag gtgttacttg agaagaagag tcgtgaagag gagtactcta tcgagaggtg 360
tctcgacaca gttgatgtta tggaggactt gacggatgan gagaaggccc ttgcagcana 420
ngtgttcaag aatg 434

<210> 52462
 <211> 365
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-056-Q1-K1-B7

 <400> 52462

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 gcggtatgat catttgctgg tgaaccggtg caacatgtac caagagcggg cagcgagatc 120
 aatgttgctg ggccaagtgt gggcagtgag actaatgttg atggactaat gttggatcaa 180
 gaggcttggtg aagttcagtc tccaccttct gttacgtcag tatatagaag tgggaaaaag 240
 cggaagaaaa gtcaagttgc aagtgttctg gatgactatt tggagcacia gaagaagcaa 300
 acacagaaga ttatggaggt gttacttgag aagaagagtc gtgaagagga gtactctatc 360
 gagag 365

<210> 52463
 <211> 289
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-056-Q1-K1-B8

 <400> 52463

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 agtgtgggca gtgagactaa tgttgatgga ctaatgttgg atcaagaggc ttgtgaagtt 180
 cagtctccac cttctgttac gtcagtatat agaagtggga aaaagcggaa gaaaagtcaa 240
 gttgcaagtg ttctggatga ctatgttgag cacaagaaga agcatacac 289

<210> 52464
 <211> 160
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-055-Q1-K1-G1

 <400> 52464

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gcgcggggtcg aatcatcctt cttccgtcac catacact gtagacagtc gaacaatcgc 120
 cggctagacg cccctcttct ggacgccgca cgccttgacg 160

<210> 52465
 <211> 440
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-055-Q1-K1-G11
 <400> 52465

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 ggcaagaatg ccgccatgga gatccacact gaaaactacc tcattgtcac aaaaaatgga 120
 aatgtgtgcc tgggcattct tgatggaacg gctgccaacg tgagtttcaa cgtaattgga 180
 gacatcacga tgcaggatca gatggtgatc tatgacaacg agaaatcgca gctgggatgg 240
 gcgcgtgggg catgcactag gagcgccaag tctattctgt cttcctttcc ctgagctcag 300
 ttctatgtac ttctgataga gtttaagaaa atcactatat caaacctcct cgcaatgcat 360
 gaatttecta actgaagagg gagggagaga gagagagaga atgttcctgt ttatgtagag 420
 atggagtcca aaatttgtgt 440

<210> 52466
 <211> 446
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-055-Q1-K1-G12
 <400> 52466

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 gagaatcgaa gggagtgtca taggggagag atccaacttg ttctcacagc tgcactccga 180
 taattctagc cctacagaaa acaaactcca accaggtgaa aagtcctttg catcggaggc 240
 atatgcggtg aactggaacg aaccaccaga ccaacaatcg caagactccc tcgagcagct 300
 agagccgtat cgagtgatat ggaaacaacc agtgcaaggt gaaaagtcct tcgtatccga 360
 ggcatatccg gcgaaatgga acaaaccacc atcaccaagc atgcaatcgc aagactcctt 420

cgagccagag gcatatcggg tgaaat

446

<210> 52467

<211> 255

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-G3

<400> 52467

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aggacacttt ctgcttacca atctcctcct tgataccatg aaggccactg ccaagtctac 120

gggcattgag ggccgcattg tgaacctgtc atcagtcgcc caccaccata cgtatccgaa 180

gggaattgac ttcgataacc tcaacgatga gaaaatatac aacgacaaaa tggcttatgg 240

acagtctaaa gctgc 255

<210> 52468

<211> 218

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-G4

<400> 52468

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gattaccacc aaaactgaac cttgaaccct atctcgaatg gtatcaacga ctcatcttta 120

aattacgaaa gtttcaatca caaaatgttc tactgctccc aacataaata taataccaca 180

tgttatattg aaacatatat atccatcatc catatacc 218

<210> 52469

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-G7

<400> 52469

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tgtggtaaga tcaggttcta ctgctgggat accgcagggc aagagaagtt tggtaggctc 180
 agggatggat actatatcca tggccagtgt gcatcatca tgtttgatgt aacctcaagg 240
 cttacttaca agaatgttcc tacgtggcat aaggacctgt gcagggctctg tgaaaacatc 300
 cccattgtcc tctgcggtaa taaagttgat gtgaagaaca agcaggtcaa agccaagcca 360
 gttactttcc acaggaagaa gaatctgcag tactattaaa tttc 404

<210> 52470

<211> 394

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-055-Q1-K1-G8

<400> 52470

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 atccatectc tttccctcc tcgcttgcgt tctcggcggg attcctcctc cctcggcctg 120
 ccccgctccc tttttcggcg cgcgagctcg cccgagatgg caaacgcgag atcgggtgtc 180
 gctgtgaatg acgagtgcac gctcaagttc ggcgagctgc agtcgaagag gctgcaccgc 240
 ttcttaactn tcaagatgga cgacaagttc aaggagatcg ttgtggacca ggctcggggat 300
 cgcgctacca gctacgagga cttcaciaaac agccctcccg agaatgactg ccgatacgcg 360
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<210> 52471

<211> 327

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-G9

<400> 52471

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 ggaaggcccc tttgatgtgg atgtttttga ctctagtgtg gattacataa agttaatgaa 120
 gacaattttt gacttcgaag caataaaaaa gctgctgacc tccccaaagt ttacattctg 180
 ttatgatgca ctccatgggtg ttgcggggagc ttatgccaaa cacatctttg tggaagagct 240

tgggtgctgat gaaagctcac tgttgaattg tgtcccgaaa gaggactttg gaggtgggtca 300
tccggatcct aaccttacct atgcaaa 327

<210> 52472
<211> 218
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-H10

<400> 52472

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agtgaatatt tttaaattaa aaaaaacaaa caaaaaaaaa aaaaaaatgt tctaaaattt 120
tataatgaaa cataatatTT tattccttct tccaaagttt atatcatctt atcttaaaaa 180
taaatttaaa ttaattaact tgactctctt ttaaattt 218

<210> 52473
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-H11

<400> 52473

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ctctgtctca ccgcttttagc acgtacacca cgcccgctg cgctagatcc catctgaagc 180
cagcggacat catacccttg agcgctagct gggctgcac tctaacctcc acaggcagca 240
agcgagcgtg gttagcgccg cagtggtttc accgacctta aatcgggccg taagctcgag 300
gactgtcact aatttcttga gcttaaagtg tcagaggggt taataccgca gtgtatgagg 360
gtgac 365

<210> 52474
<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-H3

<400> 52474

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gtcaaggggtc aagttgctga ggagaagggg ggaatcaaga ctgacgcttc ctttgaaaca 120

agcgttcctg gagtatatgc cattgggtgat gtggctacct tcctttggaa gatgtccatt 180

gaagttagga gagtggacca tgttgaccat tctagaaagt ctgcaaagca ggctgtaaag 240

gcgatcaagg gcaaaaagtc cgggtgaacca gttccggagt atgactacct gccatacttt 300

tactcccgat cattcaacct ggcgtggcaa ttttacgggg acaacgtggg caaaaccatc 360

ctgtttggag acagtgaccc caccttcagc aagccc 396

<210> 52475

<211> 349

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-H4

<400> 52475

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gcttggttcatt cccattgatc ttggcataaa tcaagctggg cttgctgagt gtatagttcg 120

tgctgtacaa gcttgccatc catatcttca acctgtgctt tttgagagca tcatcttgac 180

aggtggaagc aactgtttcc ccagattcac cgaaagattg gagagggaac ttccggcctct 240

tgtccctgac gactacaagg ttaagataac tcgtcaagag aagtatgtct ctgcaccccc 300

ctcttgcatg cccaaattta ttggtggaaa atgctgaaaa atgaatcat 349

<210> 52476

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-F7

<400> 52476

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gcgcagtagg ggtgggaaaa ggaagcgtga gaagaagttt gcagaacagg ccatggctgc 180

taaagctgaa gaagctgaga gatctgtctt taatttttatc aacagccatc tagtaagcca 240
 agaaagtctg accaccaaag ttagaaaggg ttcacagctt gagaccaatg gactcgctaa 300
 gaaagaagac cgaagatcct tggttgcata ccgtgaagaa gtgaaagaac ttaagattcc 360
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<210> 52477

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-E12

<400> 52477

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 tgagtcgcca aataagcttt tacttcctcg ctgctgtggg tgaagtgact gtaattcact 180
 aatdddgaac taacaaaacc caccgttgat ttgtatgata cgtdttgttc aacagtdttgc 240
 gtaccatctt tcaatgtggc ccatcttaat caacaatcaa ttccgcaatc atctcaaaact 300
 catgaagcaa gtaatctgag atctccagtt gatgtcaatg ttggagatgg ctcttaaacc 360
 tcacctgggc agcaaaatgg tctgggtcact ctctctcaga taatggactt ttttggatca 420
 atgtcccag gcgaaaatg 439

<210> 52478

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-E2

<400> 52478

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 atctcatcg gtccacctgg ctctggaaag ggaactcagt ctctattat caaggatgaa 180
 tattgcttgt gccatttagc cactggtgac atgtgaggg ctgctgtggc ggccaagaca 240
 cctctaggta tcaaagctaa agaagctatg aataaggag agcttgtttc agatgatttg 300

gttggtgggca ttattgatga agctatgaag aaaccctcat gccagaaagg tttcattctt 360
 gatggctttc ctagaactgt gactcaagca cagaagcttg attag 405

<210> 52479
 <211> 425
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-055-Q1-K1-E3
 <400> 52479

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 gccctggctg gaagcgctgg tgtgcctgcc acctacaccg aaattcggct ggaagaagtg 180
 cccgagatgg gttataatcc actcggcggt ccttcgcgtg gtgaaatctg catccgggga 240
 aaatccctct tcgctgggta ctacaaaagt ccagaactca caaacgaagc catcgctgat 300
 ggggtggtttc atacaagtga cattggaaag atgaccccaa acgggatctt gaaggtgatt 360
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 gagaa 425

<210> 52480
 <211> 442
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-055-Q1-K1-E4
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 ctgcgccggg ccttgccggt gccgcagacg gccatgggtc tgccaaggtg cccttgtgga 180
 aagatccgtt gagcccgagc aagtggaagg aagagcactt tgttctagca agcctctcaa 240
 tgtggggggg tattttttat ggtggttaca agcttttttag tggaaagaag gaagccaaga 300
 ctgaagcggc atcaccacag gcataagtgg cggagatgga gttatacccg tatctgtggc 360
 ctggcaacaa tgtaaataa aaggaatgct ttatgttgtg ctttcaagtt gataaattgt 420

ggcaacagga gattttgctt ta

442

<210> 52481

<211> 338

<212> DNA

<213> Zea mays

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<400> 52481

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gtggagagcg gcagccccct ggtccccaac aggatcaggg agtgccggtc ctacccgctg 120
taccggttcg tgcgcgagga cgtcggcacc gagtacctga ccggcgagag gaccaggtcc 180
cccggcgagg agctcaacaa ggtgctcgtg gccatcaacc agcgcaagca catcgacccg 240
ctgctcgagt gcctcaagga gtggaacggc gcgcccctgc cgctctgctg agctcagctg 300
cacgcacctg ctccgcacaa agaaagaaaa aacaaaag 338

<210> 52482

<211> 305

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-E6

<400> 52482

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gcatcatggg gccttcggac agcccatttg cagggtggggg attcttggtg aacattcact 120
tcccaccgga ttaccctttc aagccaccaa aggtgtcttt ccgcaccaag gttttccacc 180
cgaacatcaa cagcaacggc agcatttgcc ttgacattct taaagaacag tggagtcctg 240
ctttaactat ctcaaaagtt ctctgtcaa tctgctcact gtcacggac ccaaaccctg 300
atgat 305

<210> 52483

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-E7

<400> 52483

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gagagcttgt tgagcttcca ctacgccatc ctcaactttt caaatctatt ggtgtgaagc 120
caccaaaggg catattgctg tacggggccac ctgggtccgg aaagactctt attgctcgtg 180
ctgttgcaaa tgagactgga gcctttttct tcctgatcaa tgggccagag attatgtcaa 240
agctggcagg ggagagtga agcaatctca aaaaggcatt tgaagaagca gagaagaatg 300
ctccatctat cattttcatt gatgaaattg attccattgg acccaagaga gagaagaccc 360
atggagaagt agaacctcgt attgggtcac aagtactgac tcttattgat tgactgaaat 420
ctcgttccca tgttattgt 439

<210> 52484

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-E8

<400> 52484

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cgccgtcgtc gtctacaaca aggacaagcc atgggatgac cactggattt tctgggtggg 180
cccgtctctg ggcgtgcca tcgcggcctt ctaccaccag tacatctctc gggcgggccc 240
catcaaggct ctgggtctct tcaggagcaa cgcgtgatga gcagagctaa agaaaggcct 300
tcgtgggact gcgtgctgga gcaacggcga tcgatcgatc taacgtgggg agaggccgat 360
aggcggggccc ccaaaggagg agaataagtt tgtgcccgtg gcccg 405

<210> 52485

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-E9

<400> 52485

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ggacaaagat attgtagctc tatcaggggg acatactctg ggaaggggctc accctgagag 120
 gtctggattc gatggtgcct ggacaaagga gcctcttaag tttgataact catactttct 180
 tgagctgttg aatgaggaat ctgagggact tttaaagctc ccaactgaca aggcactggt 240
 atcagatcct gaatttaggc gctatgtgga gctctatgca aaggatgaag atgcgttctt 300
 caaagattat gctgaatcac acaagaaact ctctgagctt ggcttcacgc ctgcgagcac 360
 agcaccatcc aaatcagatc ttccaaccgc cgccgtgctt gcacaaaatg cctttgggg 420

<210> 52486

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-F1

<400> 52486

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 ggaccgctgc tgggcgggtg gaaccgacgc cctgacgtga gcgactcgca cattcaggag 180
 ctaggcgggt gggcgctggg gcaggcgaag caccataagc tggccgacga cgggctgcgg 240
 ttacgccgcg tggcgcgcg cgagcagcaa gtcgtgtacg ggatgaacta gccgtatac 300
 gtcgacgccg gcgaaccccg cggtcgcacc gtgcctacg tcgacgtcgt gtaccaacaa 360
 gtctggaccc ggaacctgca acttgacttc tttaaccg 399

<210> 52487

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-F10

<400> 52487

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 gaccaccgcc gccgccacct caagcagctt ccctgcacaa tgacctgcc ataatccagt 120
 cacattatc tcaaccagca tcaacatcgt caaatttgcc ttccgctggg ggtgcagttt 180
 taccagacct cagctcccag gcagttcaat atgggcttca gaggccaact ttccagagta 240

accttcctct ataccaacca gggaatgctc cacggggctc ttcagcggca cctccagcag 300
gaaatgctcc gtggggctct tcagcagaac ctccagcagg aacgacactt tcggttccct 360
caatgtactg gcatggatac tatgcgcctt caagtgggct gccacctcat ttgcagc 417

<210> 52488
<211> 392
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-055-Q1-K1-F2
<400> 52488

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cggcggcgcg ggcgcgcgcg gaggggacat ggtcagcctg ctggagaagg ccaaggattt 120
ggaccagcta aagaaggaac aggacgaaat cgttgccgat atcaacaaga ttcacaagaa 180
gctcctcgca tccccagaga tggttgataa accagttgac accattttgc tcaagcttcg 240
tggtttatat gcacgtgcaa aggagctctc tgagaatgaa atcagtgcct caaatgcttt 300
gattggatta ttagatggtt tggtgcaatc tggagcttca actgcacaaa agaaaaagat 360
agaagttggt gagcagaaaa agaagaggat ca 392

<210> 52489
<211> 232
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-055-Q1-K1-F3
<400> 52489

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gaatgctggc gtgccaatgg aggagaagaa ctggccacca ttcttcccca tcatccacca 120
tgatattgcc aatgagatac cagcaaattg gcagaagttg cagtatcttg catttgcaag 180
ctggcttgga attgtgcttt gtttgcctg gaacttcgtt gctgtcatag tc 232

<210> 52490
<211> 336
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-F4

<400> 52490

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agcagtgagt gactcatatt ttgtcagggtc tatgtgttat cgtaaactt ttaacggtca 120
ttctatttca aaagttttgc attttgcaaa aaaaagatat aaaaaaaca aaaaaaaca 180
atacaaaaga aatattatag acataaaagg aacctaaata ggatattttg caccaataaa 240
tcatggatat ccacttatta aaccaaaaaa aaggggcggc ctttttaaag attccaaatt 300
taattacccg ggttttggag ttcataactt tttttt 336

<210> 52491

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-F6

<400> 52491

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catccttcct gaagcagtgt cgaagggtcgc tgctcaggct tgcaccagca ttccttccaa 120
cccctggagt tctatccaca aggggttttag cgcctaagaa tcataagggtg aggcgaaata 180
tttcagccgc tccaccgcaa cgaactgggtt tacattacca gtctcaagg gggtcctagt 240
tcttgaacca taggtgaagc agacttatac cactattata gctgttccac cgtcgttcca 300
gattacatag ctatgcccac tttccggtgt acatatatag tcggaaagtt atttggcaat 360
tggattgggc gttgctcgat atattcccta 390

<210> 52492

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-E11

<400> 52492

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gggtcatcag gcctatgtat tcaaaccctc ctcttcattg tgctctatc gttgctacca 120

tactcagggg cagcgagatg ttcaacgaat ggactctgga actgaaggcc atggctgata 180
ggatcattaa catgaggcaa caactatttta atgcgctgaa atccagagga acccctgggtg 240
attggagcca tatcattaag caaattggga tgtttacttt cactgggctg aatagcgaac 300
aagtcgcatt catgaggcag gaataccaca tttatatgac atctgatggg aggatcagca 360
tggccggttt gagcatgatg actgtgcccc atcttgcala tgccataca 409

<210> 52493
<211> 338
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-C5

<400> 52493

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ctccctatcc gaccgctccg caatccgcct tctgcccgc ccgctcctcg tcttctccca 180
actccgcccgc ctctgcccgt ccgacgcctg caccacaactc ctcttcacc caatcgccctc 240
gtcctccac cttaccgct ccgacatccg cataggcctt cagcttcacg ggctctccct 300
gtccgcccgc ctctctgct actcgacct actgcccc 338

<210> 52494
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-C6

<400> 52494

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atcaacgaga atcgaaggga gtgtcatagg ggagagatcc aacttggtct cacagctgca 180
ctccgataat tctagcccta cagaaaacaa actccaacca ggtgaaaagt cctttgcac 240
ggaagcatat gcggggaact ggaaccaacc aaccaaccaa ccatcgcaag acttccttca 300
acaactagaa ccctatcgag tgatattgaa acaaccaatg caaggggaaa aatccttct 360

atcccaagca tattccgcca aattgaacca accaacatta acaagcaag

409

<210> 52495

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-C7

<400> 52495

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tggcctcggc tcgtgtcctg cgtgtgcata gccgcagcgg atcagtaaaa catgcatgca 120
tgcgttaccg aatatttggc agtaccagca agttaatgga ttaaataata tgtaatggaa 180
caaagcctgt tttgaacgtg gaactgctga gtgctagcag cgctcgtgtt tattggcata 240
aaaaaaaaac attaaaaaat caaatagaaa taaaaaccaa accataaaaa aacaaaaaaaa 300
taaaaaaaaa aacaaaaaaaa aaaaaaaaaa aaaagggcaa ccaatataaa ataatgcaaa 360
ctaacaatac gggacaatcc aacatatgga tcttcttttt ggaggaccta aatttaaagt 420
aaaggccctc attataaaat aaaa 444

<210> 52496

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-C8

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cgggtgccga gctcccgtg tccgtgtca actcggtgat cgcgggtgtc aagctctcgt 120
cggatctgtt ccccgaaagg gccgagctct tcccggcgcg ggtgtcgggtg agcgtcggcc 180
tcatgaactt cgtcggctgc tggttcggcg ccatgccgtg ctgtcacggc gcgggcggat 240
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cgatcgggat actgggcggc atgtgtctct tctccgggat cgagcttgcc atggcgtcgc 420
gcgacatggg 430

<210> 52497
 <211> 442
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-055-Q1-K1-C9

 <400> 52497

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 atgggtgtcc accgaattat ctacattctt ttcatatgat atcagcaaag atgattcact 180
 atcctcttcg actcctttga ggggctggga agtcactgta attaaacaag atgaaacaac 240
 tgaggggtccc ttggagatgc aaatagctct tccatcgatg ccttcattgt acatcatatc 300
 atttctttat caagcatggt tggagattca taagggtgga gggcacatcc tgtacaggat 360
 tattttgcac aattttgcat gggagctact gcagaagggt gtcaacattt atgaaaaatt 420
 tctttcatgt gttgaatctg gg 442

<210> 52498
 <211> 419
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-055-Q1-K1-D12

 <400> 52498

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 aaagcttcct gatggagagc tactggaaat tttgaagatt gactcttcta actcaaaagt 180
 gccagtagat gcctttcttg agctagtgtg gaggatttct gaactgaggc atcctaacat 240
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 tagcaagatg accctacatg atgaacttcg tcatgtggat gactcaagca agccattatc 360
 gtggaatgct cgctccaag ttgcttcaga ggcagcaaaa gcattgcaac atcttcatg 419

<210> 52499
 <211> 443

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-055-Q1-K1-D3

 <400> 52499

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 aaagtaatgg ccaaagacct tattcgtacc cggcatcaga taacaaagtt ctaccaactc 180
 aaatctcagc tccaaggagt ttctctaaga gttcagacac taaaatcaac tcaagctatg 240
 ggtgatgcca tgaaaggcgt tacaaaagca atggctcaaa tgaacaggca gctaaatctg 300
 ccaaggttgc agaagataat gcaagaattt gagcggcaga acgagaggat ggagatgggtg 360
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<210> 52500
 <211> 430
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-055-Q1-K1-D6

 <400> 52500

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 tggaaagcaa accaggagtt tccaatatgt ttctgatctg gcaagtctac ctctactcaa 120
 catatatga aaaaaaata agagacactc gattcaacat cactgccaga gtaccagatt 180
 tgattttttt tttccggtgg cttagtggcc tagccagcaa gtcgagggtc tgatgaagct 240
 gatggaaggc gagcatgtag gaccatttaa cctgngcaac cccggcgagt tcaccatgct 300
 ggagcttgcc aaagtgtgcc aagacaccat cgacccaac gcacggatcg agttccgtca 360
 gaacaccag gacgaccac acaagcgcaa gcccgacatc ggccgtgcca aagagcttct 420
 tgggtgggaa 430

<210> 52501
 <211> 285
 <212> DNA

<213> Zea mays
 <223> Clone ID: LIB3079-055-Q1-K1-D7
 <400> 52501
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 tgcctcggag ctccggcctc cgggaataaa cataggggta tcgccatgca cgcggcggcc 120
 aagacgagga atggctcctt ggaacacccc acccggaagt cctccctggg cggtacaag 180
 gccggccgga cggcgaggat ggccgagtcg tccaccggcc tcagcccaa agtcgaccgc 240
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<210> 52502
 <211> 388
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-055-Q1-K1-D9
 <400> 52502
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 catccagggc atgcctggt ccttcggcgg catgatcttc gccctcgtct actgcaccgc 180
 cggcatctcc ggcgggcaca tcaaccggc ggtgaccttc gggctgttcc tggcgaggaa 240
 gttgtccctc accagggcgg tgttttacat catcatgcag tgctgtgcg ccatctgcgg 300
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<210> 52503
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 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-055-Q1-K1-E1
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gctgtccact ggttcgcgcg cgaaacccta tccaccacgt acgcgactgg cacatgcacc 180
agctacgccg gtgagcacct caacaagcta ctcaccatca tctaccaccg cacgcacatc 240
gagccactcc tctagtgtcc caacgagcag aactgctcgc ccttgacaat ctctgatct 300
tagctgcacg cagctgctcc tgacaaacaa 330

<210> 52504
<211> 237
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-055-Q1-K1-E10
<400> 52504

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ggcggctgat gcgcttgtca tcccctggtc cctttccttt tcgggccctt tgggaaaatt 120
tttgcccgcc gtttggccga tcgttaaagg ctgaataacc ggcggtgtgt tcggattacc 180
atcgccgact ggaacgcctt ctacgttaac ttggaccggg cttcattca cccaac 237

<210> 52505
<211> 427
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-055-Q1-K1-C3
<400> 52505

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gaagccgtct gcgacaaggc cccgcagatc gacgtcacgc agttcggcta cttcaaggtg 180
ctcggaagg ggggtgtgtc gcccaagccc atcgctgtca aggccaagct catctccaag 240
gtcgccgaga agaagatcaa agccgccggc tgcgcccgtc tgctcaccgt ctagttttca 300
gtccttattc gcctcttggg ttgagatct atatctggac tagcagtgtt ttcttgtctt 360
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gctttct 427

<210> 52506

<211> 279
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-055-Q1-K1-A3

 <400> 52506

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 tcaactgattt gtctgggagg gaaacttttg ttcggatcac tggcggcatg aaagttaagg 180
 ctgatcgtga tgagtcgtct ccttatgctg ctatgcttgc tgctcaagat gttgcacacc 240
 gttgcaagga gctcggatc accgctctgc acattaaac 279

<210> 52507
 <211> 406
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-055-Q1-K1-A4

 <400> 52507

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 ggtcttggtg gtggccttta tgctccaagt ttgatgattg gcgctgctgt tgggtgctgtt 180
 tttggaggct cagcagcaga attaataaac tctgcgattc cgggtaacac tgctgttgca 240
 catnctcaaa gctatgcact gggtaagtgc ttattttttg gcaatcaatt taaaccctga 300
 actctatatt gggctaactt ttcataccat ttaagtggga atggctgcta ccctggcttc 360
 aatgtgttct ggttactga catctgtgct ggtactcttt gaattg 406

<210> 52508
 <211> 434
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-055-Q1-K1-A7

 <400> 52508

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gcagtgcacag acaagatggtt acttgatccg atttcttgtg agataattca ggactctgga 120
aaaccagaag gctgtctaca aggatttcca tggccgaaca ccattgcatc attgtgtcca 180
aaagaaaaat gatgagctca ccaagcatct gctgaagagg ggtgcgagaa cgacaattaa 240
agatggcgga agtctgactg ctctggagag aagaatggaa cttggagcga taactgatga 300
agacttattc atactatttg tgaagtgatg ttgcaaactt gcaatacaag cctttggcaa 360
ctagctgggtt gtacctgata gcattgtatt gtaccacact aatttagctt ctggaaagaa 420
catgatttct acac 434

<210> 52509

<211> 203

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-A9

<400> 52509

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tcaatccata gcttatttat tatattatat gctcttgtga catcttcttc cctggatagc 180
ttgatagatt cagctataga ctt 203

<210> 52510

<211> 307

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-B10

<400> 52510

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taagccactc gctgaaccct acgttgaggc gcgcgttgac caatctactt ctgaagaaga 180
tggtaggcaa ccatgtgtcg caatgctacc actaccacat catgcgcgac gacccgctca 240
tcattgcccc cgaatagaag gagcgtccag ctaaactgga aatgctgaat cgacttgaca 300
agggcc 307

<210> 52511
 <211> 377
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-055-Q1-K1-B5

 <400> 52511

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 ttttgacact gcaaccatct tatctgttgt tgctggccat gacaagatgg acgcaaccag 180
 cagttcacag gttgttccag agtacgcac ggagttggtc tccctagatt tactagaatc 240
 gaaaccatta aatgggtgtga gaattgggat tatacaagaa actcttgag aaggtgttgc 300
 cagtggagtc gtatcatcaa tcaaggggtgc tgcttcacac ctggagcaat tgggatctgg 360
 cgtggaagaa ggttcac 377

<210> 52512
 <211> 420
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-055-Q1-K1-B7

 <400> 52512

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 ggatccagat cctgttgtgt tccttgaaaa tgaacttctt tatggtgaat catttcctgt 180
 atctgctgag gtacttgatt ctagcttctg ccttccgatt ggaaaggcta agatagagcg 240
 acaagggaaa gatgtcacta tcactgcatt ctccaaaatg gtgggatatg cccttcaggc 300
 cgctgatata ctggccaaag aaagtatcag tgccgaagta atcaatcttc gctcaattag 360
 accgctggat agagctacta ttaatgcac tgtgaagaaa accaatagat tggtaaccgt 420

<210> 52513
 <211> 302
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-B8

<400> 52513

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tgctcattgc atttgggttt catggatttt gtcttcatta tcttatattt gttatgcacc 120
ctcatttttt gtgcaggagg catgctctct tacttcccaa gatctcttgc acggaaacac 180
atccaaagat agcacagctt ctagaacatc acaaacctaa tgtgtcactt cttatgctaa 240
agtgtgcaga gtgcgatagc ttctctgcta cagaaaactt tgaaaaagat ggcggttcat 300
ct 302

<210> 52514

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-B9

<400> 52514

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ttagtaacaa ttgcaagtga tacgtcattc tacattttga aatataatag ggatgtagtt 180
tcattctcatt tggatagagg gggttcagct ggtgaggaag gtgtggaaga tgcctttgaa 240
ctgcttcatg agatcaacga acgtgtccgg actgggctat gggttggcga ttgtttcatc 300
tacaataatt cttcatggcg tcttaattac tgtgtaggag gagaggcac aactttgttt 360
cacttggatc ggccaatgta tttattagga tatcttgcaa accaaagccg tgtctatctt 420
attga 425

<210> 52515

<211> 233

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-C10

<400> 52515

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 actaacccaa tttttaccac attatcactc aaaaaactcc tgacctacc aactttttca 180
 ttctgctatt attcactcca ttgcctccg gcatcatatg ccgtacacat att 233

<210> 52516
 <211> 410
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-055-Q1-K1-C12
 <400> 52516

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 cgacgtggag gccgcctccc acgtgagcca ggccgaggcc gagccgccg tcagcatcca 180
 gagccaggcg ctgggtggcg accaggaggg tgaggaggtc aggttgaac tcacgctcgg 240
 cttcgagcca gtcgtcaggc agcagccgag gctgtcgtgc tgcgactcga gcggcttgag 300
 cgccgcgtcg agcctcatcg gcctgcggct gcagctgcca gccgcctgag cagaggaggt 360
 catctcattt cacaaggcac agtggcacac caagtgcagt tttgcaacca 410

<210> 52517
 <211> 248
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-055-Q1-K1-A2
 <400> 52517

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 ctgttaggat actgtcttgc tgattttaaa gcgaacgttt actcacatcc tgccatgctg 180
 gttactgaat ggtcaaccgg gatatttgct tttttgttcc ttgagacctc gattggcatc 240
 ttccggtt 248

<210> 52518
 <211> 405

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-054-Q1-K1-G9

 <400> 52518

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 gaaggggatg ggaaagacac tctttgaacg ccttactgaa gcttatggag aggaaatcac 180
 atccatgctc actgtgcagt acagaatgca cgagcacatt atgagctggt catctaaaga 240
 actttacaat aataagatca aagcacattc tagtgttgct gggcatatgc tctatgatct 300
 agaagaagtc actagatctt cttcaacaga accaactatt gtactcattg acactacaag 360
 gtgtgatatg gaagaaagta aagatgaaga ggagagcacc atgaa 405

<210> 52519
 <211> 416
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-054-Q1-K1-H10

 <400> 52519

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 ggcgtgaaaa acatgaattc agctaccaca gatgggctca tcttgggggtt ccgatgctta 180
 tatctgggtg tgatgacgcc aagctgtttg catattcagc aagagagttt actcagttct 240
 cacctcataa cttctgccct gcacctcaac accctttgat aaagctggct aggaatagca 300
 cagtcaatgg agattatgta atgcttgtcc agtcttcgaa cttcttggat gttttacttg 360
 tgacagttca gaacaagctg acgactccaa gtacatcatc atctagagga gatgct 416

<210> 52520
 <211> 306
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-054-Q1-K1-H11

 <400> 52520

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 acaaggacca cggcggcgtg cagcagcgga ccaccgtggt gctctgggag tggtgcaagg 180
 gcccacaacca gagctggaag gtgctgcctt ggggggacga ggcttacgag ccgcgcccgt 240
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 caaggg 306

<210> 52521
 <211> 455
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-054-Q1-K1-H2
 <400> 52521

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 aggcttctcg cgaatctaata cgtcatgggc ggaaccgtgg ttggcagggc catgctccag 180
 gcctaccgcc aggccatcgt caatgcaaac aaaactggag ctgcccaga agctataaat 240
 ggtattagac gggctagcaa ggccatgact gagcaagaag cccggcaaata tcttggtatc 300
 agtgaaaatt cgacgtggga agagattgtc cagaagtacg acacaatgtt tgagaggaat 360
 aacaaaaacg gcagcttcta tctccagtca aaggttcata gagcgaaaga atgcctggaa 420
 cctttatatc aaaagcctga tgtactgaac tgaga 455

<210> 52522
 <211> 456
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-054-Q1-K1-H3
 <400> 52522

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 accagggaca cactgcgccc gccctgcgc cggcctcctc gcctgcacat gcacctacac 180

ctgcccttgc gcgggtctcg ccgtcgctcg cccctgtacc ggtctcgccg tcgccgtcgc 240
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 ccaggcgctcg ccagcgcca tcgccagagc aactacccc agtccttcg ccagacgcgg 360
 acgggcaacc gcctgcagat cagaagaaca acgcagcaag ggacacggca tcttggaata 420
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<210> 52523

<211> 353

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-H4

<400> 52523

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 ggacgctgaa tgcaacaacc ttccagtcag ctgctatata aagtgcctgc ggccggggcg 180
 ctgcaacagc tgctgcaagc agaatcactt cgtacgtgga gagtgcatcg ggtgggactg 240
 ctgggtgctgc agagcctaac tagcctgct ctcactgac caatgcaaag gagatttact 300
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<210> 52524

<211> 321

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-H5

<400> 52524

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 acatgatcaa ttatcctgcc tatgcatatg acatcttcat tacatacag tacaagctct 180
 gctgtccact atgatgatgc aattactgat tatgcatgtg acagattgca ttttgagccc 240
 aatttctcac ttccctttgt actcaacctc cattgctcct gatgggtggaa cttttgcttt 300
 ctactaactt aatgcaaaaa c 321

<210> 52525
 <211> 415
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-054-Q1-K1-H6

 <400> 52525

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 ggcgcacctg gttggcagct tgggtggaca tgggcaaaga aggaggttat atggtcaatg 180
 gttggggctc agaccactga acagggcgac tgctcaaagt tcaagagcag cccaccccat 240
 tgctgcaaga aagatccaac aattgtcgat ttacttccag gcactccata caacatgcaa 300
 attgccaatt gctgcaaggc aggagtgtga aataccttta accaggaccc aacaaatgct 360
 gctttctcct tccagatcag tgttggtctt gctggaacta ccaataaaac tgta 415

<210> 52526
 <211> 324
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-054-Q1-K1-H7

 <400> 52526

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 cagtcacaat ctttccatcc ttatcatgag ttccattagt tcaaatacac atacacctat 180
 gcttttctgt ctgtttacgt tgattacccc tgtatcatac tctaaatcta caatatagcg 240
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 aaacattaac catagccatt tact 324

<210> 52527
 <211> 435
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-054-Q1-K1-H8

<400> 52527

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tcgggggctaa caccggcgaa gccgggggcg gtcgaggtgc agcgccgacg ggtgggcagc 180
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gtaacatcat ctcaggtggg ctcaaagat atattcccag cagctgttgt gaaggccatg 360
ctctaccctg gagctaccgt gagcagccta acttaaagcc agacatttcc gagttggaat 420
gacctgtttg acatg 435

<210> 52528
<211> 380
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-054-Q1-K1-H9

<400> 52528

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ctagaactag aaatgattcg agggcaattt cagaaaatgc taaagaaaca tatgctgtat 240
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<210> 52529
<211> 322
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-A11

<400> 52529

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cagcatttcg gcaccgtcgc tgagcagcag gcagattcac ttggttacat ttgcccgtcg 180

tgcaaggga agttttctgg tcatcttggc attaacggtc catctatttg aaatcagttt 240

cttgtaacct gaactggtgc tgctgcccc ccatcaattt atagtctagt tgatatgaat 300

acgtttgtac ttgtagtatg ta 322

<210> 52530

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-A12

<400> 52530

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gtggagccaa ggtggtgagc gaggcggtgg ccaattccgg cgcctcgccc ctgtctccgg 120

cgatcacctt catcttggac aaggcgcac cgtacatccc caaggaggag cccaaggcgg 180

aggacgcggt ggctgaggcc acttcccggg aagtcgccgt ggaggtggag gatgccgagc 240

cggctatagc tgatgcagcg gccgagacac catcggaggc gaagaaggga gaggaggaaa 300

agccgggtgc cgaggaggcg ggcgccaccg cagcggctgc tactgaggag aagtaatact 360

ccgatccaca gccatgcctt ttctacgta gctgcagcag agtgaaaagt gattcagtca 420

gt 422

<210> 52531

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-G7

<400> 52531

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gtaccagtgc atggaccgcg tgcccgactt ctgcctgcgc cgctgcaccg cgcccgcggt 180
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 ctgagccaca ctgtggatta ggttttttct tagttgatgc cgcattggaaa gagaggctgt 360
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<210> 52532
 <211> 462
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-F2

<400> 52532

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 ccgtccacc ccccgggcta cggcgcgctc gtgcccgtga agaccgagga gcccggtgcc 180
 gtggccaccg tctcgtcacc gccaggcg ctcccgcgc cgcgctctg ccgccagttc 240
 tggaagtccg gcgactacgt cgtcgcgcgc cgcaaccccg atgtggccgg ccccggtggg 300
 cggaaccggt tgccgataaa cccaagttt ctgcactcca atgcgacttc ccacaagtgg 360
 gcttttggcg ccattgccga gtccttgac aatgcaatcg atgaggtgaa caatggggca 420
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<210> 52533
 <211> 344
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-F3

<400> 52533

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 gcagcagcgt accatcgagg caatggcggt gatggccgaa gtagtgtcga ccaccggcg 180

ggcgctccgg agcccggcca cgcagcagcc ggcggcggcg ggcgcggcga agggcaccga 240
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<210> 52534
 <211> 454
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-054-Q1-K1-F4
 <400> 52534

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 tcacagcatc atcgtcctc gagatcctgt cattggttat cttgaaagat acaaattaca 180
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 tcatttactt agctggtttt cagcttcttt tatcttcttg gaagcgcctc cttattcctg 360
 gtatatttgg tctggttgct ggttctctct atcgtctaaa tgtgctcggc atccgcaaga 420
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<210> 52535
 <211> 376
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-054-Q1-K1-F5
 <400> 52535

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 ttctatcgca tcaccttaat tcaattcaat gcccgcatth ttacaacttc aagactcgaa 180
 aaacctttgc gttcccgaat taaatcctct tgggtgaatt tctcctttca acagttacct 240
 taatttcgaa attgccatca catcacggct ttgcctacaa gggctcaacc tgaatgacaa 300
 atggtacacg cacttaactg gtccttaaata cgcaacatct ttactgatta ccccatcat 360

gcccgggtaca ttgccc

376

<210> 52536
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-F7

<400> 52536

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gacttatggtt gggttttcagg ctgtaatgac cgaggaaatg tcagaaaaat ttcgcgggttt 120
gcctggagta gtttttcattt tgcctgattc atatctatat ccagaaacaa aggagtacgg 180
aggagacaaa tatgacaatg gtgtcatcac tccaagacca ccacctgttc attatagcag 240
accatcaaga actgacatga accgtaacta ccgaggaaac taccaggatt gcccttcaca 300
gcaaggaaat taccagaaca accgtccttc accagaaagt ggttaccaga acaaccctgc 360
gcagcaagga aactaccaga cataccgctc gcagcaaga 399

<210> 52537
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-F8

<400> 52537

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gcctggagta gtttttcattt tgcctgattc atatctatat ccagaaacaa aggagtacgg 180
aggagacaaa tatgacaatg gtgtcatcac tccaagacca ccacctgttc attatagcag 240
accatcaaga actgacagga accgtaacta ccgaggaaac taccaggatg gcccttcaca 300
gcaaggaaat taccagaaca accgttctac accagaaagt ggtaccagaa caaccctctc 360
cagcaaggaa actaccagac ataccgctcg cagcaagatg gaagaggcta ttccccacag 420
cagaattatg cacaaggtgg tca 443

<210> 52538

<211> 280
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-054-Q1-K1-F9

 <400> 52538

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 gcttggggac ggggtacctt tgcaaacgaa aatccacaat attggcgcaa cactttagg 120
 agttgacaag tttggtaaca aatattatga gaaactacat gacactcagt atggaaggca 180
 taggtgggta gaatatgcag agaaaggctg ttacaatgca tccaagtgc ctgctgaatg 240
 gcatggatgg ctgcaccaca tcacagatag caccggggat 280

<210> 52539
 <211> 345
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-054-Q1-K1-G1

 <400> 52539

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 cccgtattcc cctgctcggt ctcccttacg cagcagcagc cgtaccttcc ctgcagcgcc 120
 cctctccatt tttccctctt gctccctgtg cggcgagctc atgtgctcac agcacctctc 180
 cctgccttct ctctgtcccc agcgaccagc agcaaggaca acccccttcc ctgctcctt 240
 tcggatgtgc gcgaggtggt cgacacaatg cctgcgagga aggaccgaga gatgatgatc 300
 gagccagtga tgtggtgcca accacaagat gccgtggtgg acgac 345

<210> 52540
 <211> 434
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-054-Q1-K1-G11

 <400> 52540

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gtccacctgc ttgccacct ctacatcaat gacctgaaca gcgcgcgggtt cttctggaag 180
tcgttgccgc aggaggtcaa ggacacgcgg cggagctcg ccgctgtctg gaggattggt 240
cagtgcctct ggaaaagaga ttatgctggc gtcaacacgg ctgcacaggg gttcgagtgg 300
ggtcctgacc tcgctgactt catcactgcc ttcctagaga gctacagaca gaggatattc 360
aagctgttga cttctgcata ttccacaatt agagttgctg atgtggctca tttcatggng 420
atgagtgagg agga 434

<210> 52541
<211> 451
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-G12

<400> 52541
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cgcaggagcc tccaccgggg taccagggct acttcaacga ccagcagcgt ccttactacc 120
cgccgccgca tggagagcat caacacaacc accaccaggg aaaccagggg agctcctctg 180
ggttcctcaa aggatgtttg gctgctctct gctgctgctg cgtgctggag gaatgctgcg 240
gctgcttctg agacgtgaga tgtccgggaa tccgatcgca agttatcgtc gctagcattc 300
gggagcacc cagttattat catataatag taactgtgct tgtaaataat ctggagcagc 360
agtgttcag agtcccagc cccgcattta tattctcata attttagta cgttctatga 420
tttatccgaa aataaaggac tctatatatg g 451

<210> 52542
<211> 458
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-G2

<400> 52542
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ctgacgagga gtcgtcgatg gatcttggtc tgagctttga tctctgtctt ggtcatgaca 120
ctgcacatcg tcacaagaag ccatcggcag gtgctccgaa gttggacctt cagttgagcc 180

tgtccacctg ttgcctgaa tcagccttga ccaatgtaag tgccaatgat ggcttagaga 240
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 tggcttcac c atcatcatat gcatatgctt ctgaaacaac ctacggcctt tctttgccaa 360
 agatacctga agatgtcgtg gtcgtgcctt caacaacaga cgtgtcatca gccgttacgg 420
 tgagcgtgaa aaagcccgt c cgaaacgga gcaatatt 458

<210> 52543
 <211> 149
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-G3

<400> 52543
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 aaaaaaaaaa aaaaaaaagg agggaaaaaa aaaaaaataa aaaaaaaaaa aaaacaaaaa 120
 actaaaaaca aaaaaacgct gcccatTTTT 149

<210> 52544
 <211> 459
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-G6

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 gagccccctt tcaagggtcaa ggggctctgg ctcttcaggg gctcagaaat tcccaagttt 120
 gtcattggacg aagtctatga catggagctt tatgagtggg ccaagggtga cctctctgat 180
 gaggcacaga aggagcgggt caatgccatg attgaggacc aggagccatt cgagggcgag 240
 gccttgctgg atgcaaaatg ctccaagtga ggaaagagtt tttgggtcca attctaaaac 300
 agccatggat gatagctttt gattatgcgt gctggttatg attatgctgt ggagttttgg 360
 ccatgttaac gggaggctgt gctcgcgaaa ccttctgcat tatcgcatcg gaatcgtttg 420
 tcatgtgcat cctagtgaat agatatatta tgaaaatat 459

<210> 52545
<211> 437
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-054-Q1-K1-F12

<400> 52545

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gcggttgttt gagaggagag gaggaagatg agggagtgca tctccgtcca catcgggcag  180
gccggcatcc aagtcggcaa cgcgtgctgg gaactttact gcctcgagca cggcatccag  240
cctgatggcc aagtgcctgg agataagacc gcgggacatc acgatgatgc cttcagcacc  300
ttcttcagcc agactgggtgc tgggaagcac gttccccgtg caatcttcgt tgatctagaa  360
cccactgtga tcgatgaggt gcgcactggc acgtaccgnc agctcttnca ccctgagcag  420
ctcatcagtg gcaagga                                         437
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<210> 52546
<211> 454
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-054-Q1-K1-D7

<400> 52546

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ggtgctgatt gatgaagaca gtctcttgac tgaggaggac ctgaagaaac cacaacttcc  120
agttgttggg gactgtgagg tgggggcagc aaagaaagca tgcaagaact gtacttgtgg  180
cagggctgag gccgaggaga aggttgggaa gctggagctc actgcgagc agatcaataa  240
ccctcagtca gcttgtggca gttgtgggtt gggatgatgc ttccgctgtg gaacctgtcc  300
tacagaggtc ttccaccatt caagcctggc gagaaggttt ccttgtctgg caacttcctt  360
gctgctgaca tatgatggca tcgccaacat cggcaaaaaca aggagacggn ggtacctacg  420
ttgttagtcg actgaactgc attccaaata gctt                                         454
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<210> 52547
 <211> 365
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-D9

<400> 52547

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ccagccatat cgatggcttt gatcagctga cggaatgata ctggcaggga cttactact 180
gcgccgtcgg agcggacaag tctacgggc gggacatcgt ggacgggcac tacaaggcct 240
gcctctacgc cagcatcgac atcagtggca tcaacgggga ggtcatgccg gggcagtggg 300
agttccaggt cggtcctgcc gtcggcgtct cggccggcga ccagctctgg gtggctcgct 360
acatt 365
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<210> 52548
 <211> 309
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-E1

<400> 52548

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ctcccactga atcctacgtc atctatccct gttggaaacc tggtaatcat cgttggtgat 180
ctcacaaatc ctcaactatt gcttcctatt tcaggaaatc ctattcattc cattaaaggt 240
cacttgatt tctcctttgc tccgacttgg agcccaaag gcctaacatt acccacatgc 300
aaccaagac 309
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<210> 52549
 <211> 389
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-E10

<400> 52549

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agctcgagag agagagagag agaaagatgt cgtgggttcgg gcaccaccac cacaaccage 120
cggctcccc ggcgtcgggc cccaaccagg tgttcaagat cttctgccgc gccaacgaga 180
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accaccagca ctggtacaag gacatgcgct tcatcaccgc ggtcaaggac gaggaaggca 300
tgccggcggt cgcgctcgtc aacaaggcca cggggctcgc aatcaagcac tccctcggcc 360
agtcccaccc ggtcaagctc gcgcctttc 389

<210> 52550
<211> 272
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-E11

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gtgacaagat tgggtgtatt ggaactgttc cggttggtcg ttggagactg gtgtcatcaa 120
gcctggaatg gttgtcacct tcggtccaac tggcctgacc actgaggtga agtctgttga 180
gatgcaccac gaggtctctc atgaggccct tcctggtgac aacgttggct tcaatgtgaa 240
gaacgttgct gtgaaggatc tcaaactgtg gt 272

<210> 52551
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-E12

<400> 52551
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ccagcccatc ggcacggcgg cgcagggcac ggacgacaag gactacaagg agccccgcc 180
ggcgccgctc ttcgagcccg gggagctcaa gtcttggtcc ttctaccgcg ccggcatcgc 240
cgagttcgtc gccaccttc tcttcctcta catctccatc ctcaccgtca tgggcgtctc 300

caagtccacc tccaagtgcg ccaccgtcgg catccagggc atcgcttggg ccttcggcgg 360
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<210> 52552
<211> 460
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-E2

<400> 52552

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cctgcctggc gtgactgaca cttgggtcga catctgggct gcacagatca tgcatcactt 180
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aactgtgcta gaacttttta gatttgtatt ttagggataa cataacaaac attaaatagt 300
tttgcaaata ttcattaggt taggtctccc ataatgctat agtgatgcac aaaactaatg 360
ggcaccacac cgaacatcgg aacatcccag tgctggagtt ttcaaataag gtcctcttta 420
aatctgtagt gtttaaataa aggtttggta gagtttctct 460

<210> 52553
<211> 432
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-054-Q1-K1-E3

<400> 52553

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cgacgccgac gtgttcgggt tcctcgacga gcgggagatg ctgggcgtga tggagggcac 360

cgacacggtg gacgacgact cgatcttctn cgatgagcct ccgtttgact tcggcgatgg 420
cgacacggag ct 432

<210> 52554
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-E5

<400> 52554

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ggacatcatc ccagagatgg agatctgtga cttcgacttc gagccctgtg gctactccat 180
gaatgctgtt catggccctg ctttgtcgac cattcatgtg accccagagg acggcttcag 240
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taagaggggtg ctgaagtgtt ttggccaac tgagttctct gttgccgtga ccctcttcgg 360
tgatcgggac aatgcgaaga cctgggggac gaaactggat gctgaggcct atgcttgcag 420
caacatggtt gagcaggtgc tgccgtttgg tg 452

<210> 52555
<211> 451
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-E6

<400> 52555

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ttgctaggaa ggctcagggc tcagtgggga aggggagaga aacgactgca gttgaaatga 180
agaaggggtga ctggttgtgc actaactgta acttcttaaa ttttgctcgc aatcgctcact 240
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tgggcgattg gatctgcaca cagtgtcagt ttatgaactt ctctcgcaac aagatatgtt 360
ttaaagtga agaacctcac ccgaagaggc aactcaatcc tggagagtgg gagtgccctt 420

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451

<210> 52556

<211> 378

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-054-Q1-K1-E8

<400> 52556

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acatcgacgc gactctcgcg cccctgttcc ctccccaccc cgtcgccgcg ctctcgcccc 180

tctccacgct gggcctnccc gaccgcgcct ncgctctgct cggcaccatg acgtcgccca 240

ataccgcgca cctgaacgcg gtctctggtc cactctccg ccgncgncgc ctggccgggc 300

tcgtgccctc aatctctgcc gcgcatgcct ctgtcccgcg ggacgccgtc acggacagca 360

tcctcgccaa gtcgtctt 378

<210> 52557

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-E9

<400> 52557

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gagaaaaagg ctggtgcgga aagcctttga tatgatactt ggcatttctt gcagtgaaaa 180

tagagatgat tatgaaaggt tctgggagaa ctttggaaaa tttttaaaagc tgggtgccat 240

ggaagataag gaaaatcaca agagaattgc tcctttgttg cgcttcttct cttctcaaag 300

caacaatgaa ttaattagct tggatgaata tgtggaaaac atgaaacctg agcagaagga 360

catttacttc attgctgcag atagtatgag cagtgccata aatgctcctt tcttagagag 420

ac 422

<210> 52558
<211> 418
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-054-Q1-K1-F11

<400> 52558

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caacaaggaa gtgaagcgca tggagaagag gaagaaccca ctcaagaaca tggctgctgt 180
gctcaaactc aacccttacc tcggcactgc ccggaagatg gccacccttg ctgaggctgc 240
tcgtgtgaag gccaagaaag cgaaactcga ctccaagaag accaagctta ccccgagac 300
tgccaaggtt aaggctgctg gcaaggcatg gtacaagacc atgggtctcg acagcgacta 360
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<210> 52559
<211> 448
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-054-Q1-K1-C1

<400> 52559

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gatgttacag ttgctcccaa gtagaggggt ctgccaagtt taggtcactt ttactctag 180
ttctatntag gtatacatTT ttggtaggag ctgttataca gcaacaagta caaggtgaat 240
gtggatcatc cctttcttct tctggttgct actggctgca gtcttaatat tgcagatgtt 300
cattacgaag agggctctga ggacattcaa gcacacgaga ttcttagtta ggtgaaattc 360
cttggtaggg atagtagcta ggctctgaca agtagtgctt ggtgccctnt gctctttttc 420
cctttgtcag cgtcgaattt tgggtggtc 448

<210> 52560
<211> 409

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-054-Q1-K1-C10

 <400> 52560

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 gagatggctc ttcaagacag agtaatggaa gaaacaaagg agaagaagaa tgctgttgaa 180
 gcttatgtgt atgacatgcg taacaagcta tatgacaagt acagtgattt tgtcacacct 240
 gaggacaagg aaggtttgat cggtaaactt caagaagttg aagactggct ctatgaagat 300
 ggcgaggatg agaccaaggg agtttatatt gctaaactag aagaacttaa aaaggctggg 360
 gatcctattg aggtgcgctt caaagaatgg gagattagag gttctgctg 409

<210> 52561
 <211> 344
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-054-Q1-K1-C11

 <400> 52561

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 ttggtaccga cactgaaaca gaagatgata catcagaaaa ggagaaatct gattcacctg 180
 tagctgacaa gctgggtaag tcgaaacgtg taacagatgc agaaatcagt aatcctgctt 240
 ccaaacccaa gaaaaatgat actggcctgg ataggactat atttattagc aaccttcctt 300
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<210> 52562
 <211> 145
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-054-Q1-K1-C2

 <400> 52562

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gtgagcataa tgctgtatat acaagcgtat cgtcttctct gattattata tatacatggg 120
 atatatatat agatgttcca gctgc 145

<210> 52563
 <211> 449
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-C3

<400> 52563

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 tgcaaaagtt gcggatgtgg atagaaatct tggtaacgaa agtaccgcag ttgaggggtt 180
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 agtcttctcc taagaaggca ccaccagcag atatctctct atggtaatgt tcaactctac 360
 tacataaagt tccctttgga aagagttggc ctagaagcag cgatgagtgt gtgtttacca 420
 tcgtttgaaa ctttgtcacg gcacaaaat 449

<210> 52564
 <211> 424
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-C4

<400> 52564

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 atggagaagc caatggttat gctcttaggt caatattcta ctggtaaaac aacttttatc 120
 aagcatctgc taagaacaag ttatccaggt gcccatatcg gaccagagcc aacaacagac 180
 agatttgtag ttgtcatgtc aggatctgat gaaaggacta ttcttgggaa tactattgct 240
 gttcaagctg acatgccttt tagcggctctt acaacatttg ggactgcatt tttatccaag 300
 tttgagtgct ctcaaagtcg acattcactg ctagagcata tcacatttgt tgacacacct 360
 ggtgttcttt cttgtgaaaa gcaacgcaca cagcgcagct atgatttcac tgggtgtgaca 420

tcat

424

<210> 52565
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-C5

<400> 52565

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tacgatttta taaacacata catacaacaa aaataaaaaat tatctattct cactcctgct 120
caattctctg tccctccttc tacaacgtct ttactttaaa atccttcccc ctaccacact 180
taatcggttt ccttccatc cccctttaac ctgctgcaat attctcaaat aactactcac 240
ttacctccct tcccatcagt ttttcaccct ctttcccaat tggtaactgc cctgtaccat 300
ttcatttacc tctaactctc taatgcctac tcgcatcttg acatttccat tttcctatgc 360
cctacttccc tctccttt 378

<210> 52566
<211> 204
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-C6

<400> 52566

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agaatatatt aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaa ataaaaaaaa ataaattcaa ataaccaaaa aataaacaaa aacaacacta 180
ttaaaaaaat aaaaataaac aaat 204

<210> 52567
<211> 275
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-C7

<400> 52567

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 caaaaaaagc tcatcccttt ttactgaaca aaccttgcct ttccttccact taatgacctt 180
 cctctacatt ctcttactt aatttaaatt aatttcccg attttttctt cgatacccct 240
 tgccaacatt tgctctccct tactctatatt tecta 275

<210> 52568
 <211> 376
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-C8

<400> 52568
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 cttcggcctc gtctcctcgc agacgcagca cttcctggcg aagatgctgt cggacgcgga 180
 gttcatggcc cgcttcctcg cggagagcgc gcggcggtg gcggcgcgcc acgaccgctt 240
 cgtcgcggga ctccgcgagg tcggcatcgc gtgcctgccc ggcaacgcgg ggctcttctc 300
 gtggatggac ctgcggggca tgctccggga caagacgcac gacgcgaggc tggagctgtg 360
 gcgggtcatc gtacac 376

<210> 52569
 <211> 440
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-C9

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 tcaggactcc gaaggtatcc ttgttgccaa tatcaggagt tacatgggag gggttgacct 180
 ttggaagaac gaggatgatg tctctgacac ttacctcct cagtccatgc atgacaagaa 240
 gctggaagtt gttagcttca caggaatgct gcctctcggg aaactgcagg ttgggctttc 300

tcgtgcaaaa agattagccc aaggccatca tataaagggtt gaagtcagta ctacaatgcc 360
gatccaagtt gatggagagc catgggtccca ggagccggga accatagagg tttctcatca 420
tagccaggcc ttcattgctta 440

<210> 52570
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-D1

<400> 52570

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ggaatgggag gcctatttgc cgctcttctg gcaactggta ccgcccagtg aagaagactc 120
gcctgaggct tgtgcagagt ttgagagagt acttgccaag caagcaacca cccaattgtc 180
tgccaagtga tcgaatcaga ctacaggaag gtggttagtg ttttctattt gacacaaagt 240
gatctcatct tatcacttca agaaaatcga agaccataac cggcgctctg aggcaccgaa 300
gtgcccgtct gaagactgca actttgtgga ggctctgccc aagccatctt tttgagttga 360
gctaacagaa ccgaggggtc ttctcgacgc tcgtgcacct aggtaacccc tgtaaatggg 420
tttgctgacg ctaggctgca 440

<210> 52571
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-D11

<400> 52571

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aaaatgaact gaaggagtat ctctgaaaaa ttgcagcttc aaaatcacgt actagatgtt 180
catgagcttt tcatagaaga ctactattca tacatattat gttcccatatc ttgtttcacg 240
attatccttg cagccattca aatgttgatg ccctgtactc tttatggagg ttacaaaccg 300
tatagtcaaa cttatatgtg tcaagtttgt aagggttttc atggaaaatc tgaattgtat 360

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365

<210> 52572
<211> 241
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-054-Q1-K1-D12

<400> 52572

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aaacatatca cacaaagacg agttaaattt ataaaaaaaa aaaaaccaac cactaatngt 120
tctgccttcc taaagaacca aatcttactt cccctttcat ccaacataat aactattcca 180
tagtgccacc caaattaaana aaactccccg aacatttaac aacattaata acttaaaaaac 240
c 241

<210> 52573
<211> 295
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-D3

<400> 52573

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ggggtcgggt tcgtgggtga gcgatcgag atggcggcgt cggatgttga gtaccgctgc 120
ttcgtcggcg gcctcgctg ggccacggac gaccactccc tccacaacgc cttcagcacc 180
tacggcgagg tcctcgagtc caagatcatc ctcgatcggg agacgcagag gtcccgcggc 240
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<210> 52574
<211> 449
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-054-Q1-K1-D4

<400> 52574

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gatgataaga cattccagca catggcatct gtgtatagtc ggtctcacta taacatgtct 180
ttgagcaaag aatttgaagg agggataaca aatggagcat tctggtagcc aatatatggg 240
ggtagtcaag actggaacta tatacatgga ggtgctttg agttaactct ggagattagt 300
gacacaaagt ggccaaaagc agatgagctt nctatcatct gggaacacag taggatgagt 360
atgctcaatc ttctagcaag cctaataaag gccattgagc gacgaggaac gccgtgtcac 420
ttgcaatgac cagagacggg aggtcttcg 449

<210> 52575
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-B9

<400> 52575

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cgccgcagcc atggcgctga ctaagggtcca gcgtatcatg acccagccca tcaacctcat 180
cttccggttc ctacagagca aagcgcgcac ccagatctgg ctcttcgagc agaaggacct 240
ccggattgag ggtcgcatta tcggattcga tgagtacatg aacttggtcc tcgaagacgc 300
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tgacaatata actttgatga tgaacagtgg caagtgaaga ttcttatggc aggaacgatg 420
tttgggtgctc g 431

<210> 52576
<211> 454
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-A2

<400> 52576

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aagcgagcaa taccgtgagt tggtggacaa tgtgctgaat gggccattta gcatcacgct 180
gagaaaccgc atacagtgtc atgtaatacg tgacgaggca aaggatgaaa tcgtgtctga 240
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caacctggaa gtctactgtg acagctcttt tggtacttgc gtacaagggg atggactaat 360
catatcaact acatctggaa gtacagcata ttcattagca gctggagggt ccatggttca 420
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<210> 52577

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-A3

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agctgaagag aaatatatttg atgctgtaac tggctctgagt ggtagtggcc cggcctatat 180
cttcctagca atagaggcca tggctgatgg tggagttgct gctgggcttc ctcgggacct 240
tgcccttggc cttgcatctc aaacagttct tgggtgtgca actatggtga gccagacagg 300
caaacatcca gggcaactga aagatcaggt tactttctcca gcaggtacta ccattgccgg 360
gattcaagag ctcgagaagg gcgcattccg ttgaacgctg attagtgtctg ttgt 414

<210> 52578

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-A4

<400> 52578

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gggcctcgac gccgacgccg ccgctgagcg cgacgccatc gtcttccgct cctacatcgc 240
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<210> 52579
 <211> 438
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-A6

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 gtctcaggt acattgacat cgggaagcgc gaaggcgcca cgctgggtcac cggagggaag 180
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 gttgaagagg tgatccataa agcgaactac acccggtacg gcctggccgt cggcatcgtg 360
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 atcaactgct acttcgcg 438

<210> 52580
 <211> 445
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-A7

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tcaagaacga gctacactac gctacacatg cacctataca tctattcttg ccaatctcct 420
tgccaagcgc ccgtcggcca tgaca 445

<210> 52581
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-A8

<400> 52581

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<210> 52582
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-A9

<400> 52582

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gtcagacaca tatcatggta tatgttggca tatgttctct tgtgggatct ttatcgggtca 180
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caatgtttac atccttgacc atcttggcta gtgtaataat gttcaaggat tgggatcgtc 420
 aaaatc 426

<210> 52583
 <211> 371
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-B1

<400> 52583

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 cgaaaaatct tgtccgctta cgagaaatat tctgatgctg taactggctc gagtggtaaa 180
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<210> 52584
 <211> 416
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-B10

<400> 52584

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 caaaaatgtc cttattgaat tctatgcccg ctgttgcgga cactgcatga agctggtgcc 360
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<210> 52585
<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-B11

<400> 52585

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<210> 52586
<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-B3

<400> 52586

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ccttcatcag caccgattac atgacctaca tgttcaagta tgacactgtg cacggacagt 240
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gtggtgcaa gaaagttgtc atttctgct 449

<210> 52587
<211> 446

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-B5

<400> 52587

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tatgccaacc ctgtgataaa ctgctggaac acaccaccga atacagtttt ggacacatgc 360
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<210> 52588
<211> 386
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-B6

<400> 52588

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tgtggaggac atcggcaagg ggctcatccg ggaaggcacg ggatacgtca ccttccccgt 300
caagtaccag tgcgttgtct ttagaccctt caagggcgag atcctcgaag ctgtcgtcac 360
catggtgaac aagatgggct tctttg 386

<210> 52589
<211> 301
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-B8

<400> 52589

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cgggcgatcg ctggaagctt cgtcagccgc gtcctcgccg gcaaggccgc ctcgccgagg 180

agggccgtgc acgcctcggc gtacgacaag aacctggaag accaagtgcg cccggcgctc 240

gtgccggacg atgtgatcgg cagcgccggg agccccgaca agtactggag cccccacccc 300

a 301

<210> 52590

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-F7

<400> 52590

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gcacgtcgct acatcaaaca tggcccattt atacagggag cagagccacc cctacaacaa 120

ccaaagccac aacaccctca ccaactcaac caacatccag tacactcagg ctatcatgaa 180

ccactagcta acgaccaacc catgacaaca taaccaacta aaccttgaa gatgcagcag 240

cacctactaa cagtctcgct aaaactacat ccacatctaa acctaccaat ccgccaacta 300

aaacaggatg cccatccaaa cagcttaacg gaactaactt tcaataagga cacaataaaa 360

ttcgccaaaa aactccaaat aaatcctccc aa 392

<210> 52591

<211> 219

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-G1

<400> 52591

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agaaaaaaat aaaaaaaaaa aaaaaaaaaa caaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaaa aaaaaaaaca aaaaaaaaca aaaaaataaa caacaacaaa aaaaagggcc 180

accgactacc aggtccccac gaacatcccc catcatcaa

219

<210> 52592
<211> 374
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-G11

<400> 52592

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gagtcctccg acctgcgaga tgcgtttggc cagctccgac tcgttgacga cggcctcgaa 120
ccccacctcc tccgcggccc ggaccacggc gtcgaggttg aggagcaggc gagtgcggtg 180
gcgcgagatg accagcagcc ggggcttcct ccccggtccg tcgccgaggc gcgtggggcg 240
gtcccgggtgc agcgagagcg cgcgccggag gaaccgcgtg aagtccggcg tggcgagccc 300
gtccaggctg cggtcgcgct cgatgatgag ctcttgtgc gcgcgcaggc tgaccacggc 360
gcgcgggaaa cagt 374

<210> 52593
<211> 183
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-G12

<400> 52593

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gtccgactcg ttgactacgg cctcgaacct cactcctcc gcggcccggg ccacggcgtc 120
gaggctgacg agcacgcgag tgcagcggcg cgatgatgacc agcagccgat gcttctctcc 180
cgt 183

<210> 52594
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-G2

<400> 52594

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 ttccccgacgc catcaaggcc gagctcgaga ggctcttctt ggacaaggta atcacaaaac 120
 ttgggctgtg cgtgtctgtc tatgatatcc gatccattga aggcgggttcc atccatccag 180
 gggagggctg ctcgacttat aaagtttcat ttcgtttgct gatgttcaag ccttttaatg 240
 gggagattct tgttgggagg attactggat atgacgataa gggattgcag gtttcacttg 300
 aattcttcag tgacatttgc atacctggac acttgatgca gtttggcaca gtaaggggac 360
 cagatggtag gtggatgctg aagactgaat taggcgatga gctttatcta gatctagatg 420
 acgagataag gttcttggtt tctagcacia aa 452

<210> 52595
 <211> 138
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-G3

<400> 52595
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 ggttcacttg gcaagggcct aacggccggt tctttcggtt tcttcccttt ctttcttggc 120
 aacttcggcg ggttttcc 138

<210> 52596
 <211> 444
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-053-Q1-K1-G4

<400> 52596
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 tctgctcagt nctctttgac ccaaaccctg atgatcctct tgtccctgag attgctcaca 120
 tgtacaagac cgacagggcc aagtatgagt ccaccgcacg ctccctggaca cagaagtatg 180
 ccatgggcta gaagcaaggc taaaagctgg ccaaactggt gaatgtgccg gaccccaaatt 240
 cgttatcacc taaataacca gtcaagtcgc aagtatgaat ggacttttga ggaccattgt 300

gccctgttga actcatgtat taccttgtga agtccgttgt gtctggtttc tacctgaccg 360
 tttcgttatc tgatgctgat tctttaaaaa aaaaaatgat aaatcggggc cttaatttag 420
 ggtcctatct aaaggtttaa ggct 444

<210> 52597
 <211> 328
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-053-Q1-K1-G5
 <400> 52597

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 tgcggtgggtg agcggatcga gatggcggcg tccgatgttg agtaccgctg cttcgtcggc 120
 ggccctcgctt gggccacgga cgaccactcc ctccacaacg ctttcagcac ctacggcgag 180
 gtctctgagt ccaagatcat cctcgatcgg gagacgcaga agtcccgcgg cttcggcttc 240
 gtcaccttct ccacggaaga agcgatgcgg aacgccatcg agggcatgaa cggcaaggag 300
 ctggacggcc cgaacatcac cgtcaacg 328

<210> 52598
 <211> 273
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-053-Q1-K1-G6
 <400> 52598

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 ggcgggcttc cattttgggtc gtatgcaaag ctgttcttta actgctgggt ggtcttgctt 120
 tggttcaatg gtgctgcta tgtttacgac cattttgtcc ggtcaatggt tgtgaaccgt 180
 caaatagtga acatatggta cattccaaga aatgagaagc taggtaaatc tgatgatggt 240
 ctgtcagctg cagagagata tattgaacaa aac 273

<210> 52599
 <211> 95
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-G7

<400> 52599

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aagaaaaaatt ttaaaaaacc tattttctaaa tccca 95

<210> 52600

<211> 98

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-G9

<400> 52600

aaaaaaagaa aaaaaaaaaa aaaaaaaaat taattaaaaa aaaaaaaaaa aaaaaaaaaa 60

ggaaaagaaa aataaaaaaa ttagagaaaa cccaaccc 98

<210> 52601

<211> 290

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-H1

<400> 52601

caactcgaca ccgagaaaag cgcagcaaat taacgcaaag cccacgccgc tacagtgcta 60

gagcgagcga gcctcttgcc tgccgctacg agccaacgac tcgaacgcat aactccaat 120

ggcagcgacg gtgatggcct ccatgagccc cctcgctcc gccacccccg gcgcgcgctc 180

cgctttccct gtacggctgc tgctccaggc atctgcgctc gcgccgcgcc ggcgcgcctt 240

ggccgtgacc gtgagggccc agagcgacga cgccgaggcc gagccaaaag 290

<210> 52602

<211> 359

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-H11

<400> 52602

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aacgtgttcg tgggcgggggt atctaccata gatctggtgc tagagtacgt catggcctag 120
ctcatgaacc acaggctcgt gatgaagaag ctgcacgctg aggtacagac gtaccgagcg 180
tagaataagc tggacatgat caggaggagac tacctgagca gcctgtcgta cctaaactcg 240
ttcatgaagt atgcgctgct gctgcaccga tctgtgaaca tgctgatgcc gtactactat 300
accgatgact gcctgatcga cagtgaaaac atccctttca tcaactcgcgt tctcgtgaa 359

<210> 52603
<211> 152
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-H12

<400> 52603

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ccatcccaca tatgacaatc aaccatcttc cataatctaa ataatcaatc acatacacat 120
cattaaacag caccttccaa ccatacagac ac 152

<210> 52604
<211> 345
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-H2

<400> 52604

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gcttatcttc gccggcaagc agctgcagga cggacgcaca cttgctgact acaacatcca 120
gaaggagtca accctccact tgggtgctgcg ccttagggga ggcattgcaga tctttgtcaa 180
gaccttgact ggcaagacaa tcacccttga ggtggagtcc tcagacacca ttgacaatgt 240
caaggcaaag atccaggaca aggatggcat gccacctgac cagcaacgtc tgatatttgc 300
cggcaagcag ttggaggatg ggaggaccct tgctgactac aacat 345

<210> 52605
<211> 293
<212> DNA
<213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-053-Q1-K1-H3

<400> 52605

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 ggctttcaag aagcatgtaa ccagccttgc tgcgctggac ttcttggtat gcctgaagtc 120
 ggacgtgttc gtcatgacct acggcggcaa tttcgccaag ctgatcattg gctaccgtcg 180
 ctaccatggg ccgcacatgc tcaagtcaat caagccggac aagggtctca tgtccaagtt 240
 cttcggtgac cettacatgc cgtgngcgac gttcgtggag gacgtggtga taa 293

<210> 52606
 <211> 190
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-H4

<400> 52606

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 ggggtgtgacc gagatggcgc tgccgaatca ggggaccgtt gattacccca gcttcaagct 120
 cgtcatcgtc ggcgatggtg gaactggtaa aactacattt gtgaagaggc atctcactgg 180
 agaggttggg 190

<210> 52607
 <211> 147
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-053-Q1-K1-H6

<400> 52607

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 naatactcat ctactccac acttttataa taaatattaa ccaaccattc tttcataaca 120
 tcatcccatc aatttcacca ctaacta 147

<210> 52608
 <211> 291
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-H9

<400> 52608

cttgggtgcaa ccgtcgttac gtatcccctt ctagttgtta aggcaagact tcaggcaaag 60
gacatgatta acgatgacaa gaggcacgc tacaaggta cacttgatgc gttcaciaag 120
atggtacgat atgaggtct gtcagggatg tacaaggaa tgggcacaaa aattgtgcaa 180
agtgtttttg cttctgcttt gctttttatg attaaggaag aactggtgaa aggtgctcga 240
ctattggtaa ctggtaacac tagtctggtt aagaaactac catcaaagtc a 291

<210> 52609

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-D8

<400> 52609

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aaaaaaaaaa aaaaacaaaa aaaaacacaa aaaaaaaaaa aaaaaaaac aaaaacaaaa 120
aaaacaaaca aaaaaaaaaa caaaaaacaa aaaaaaacaa aaactaacaa aaaaaaaaaa 180
acaaacacca aacaaaaaca taaaacaaca aacaaaaaaa aaaaaaccaa aaaaaaaaca 240
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaacaca aaaaaaacaa aaaaaaacaa 300
aaacaaacaa caccaaaaaa aaaaaaaaaa accaacaaaa aaaaataaaa caaaaaaaa 360
aaaaacaaaa aaaacaaaca ccaacaataa aaaccacaaa aaaaaaacaa aaaacaaaaa 420
aaaaaacac aaaaaa 435

<210> 52610

<211> 226

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-D9

<400> 52610

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aaaaaaaaa aaaaaaaaag aaaagaataa aaaaaaaaaa aaaaaaaaca aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaggtc actccctttt 180
 aaaatatcca aacttaccta cccttacatc caacttaaaa cttttt 226

<210> 52611
 <211> 255
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-E1

<400> 52611

aaaaaaaaa aaaaaaaaaa aaaaaaaaat taaaaaaaaa aaaaaaggaa aaaaaataaa 60
 agaaggcttt tgcgttcttg cggcgctccat gctaacgtac tcgtgcttgc aacgtgatac 120
 ctaatttata gtgacagcta aatgcatttc actggccgga cttgtacaac gttgggggttg 180
 ccaaaaccat ggggttacca aactaaatcg ctttggacaa cttccgtctt tggcaagatg 240
 ccgtaataga tagga 255

<210> 52612
 <211> 400
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-E10

<400> 52612

gaaggcgtat ctgatgagag gagctggggc tgctattcac agccatggaa tagagacttg 60
 catcgcaaca atgctcatcc ctggtgcaaa ggagttcaga gtgaccaca tggaaatgat 120
 caaaggaatc aaaggatcatg gctaccatga tgaattggtc attcctatta ttgagaatac 180
 cccttatgag tatgagctca ctgactccct aagtgaggcg attgcagcat acccaaaggc 240
 aactgctgtg cttgtaagga accacggaat atatgtatgg ggggagtctt ggatcaatgc 300
 caagacacag gctgaatgct accattatct tttagatgct tgcataagc tctatcagct 360
 aggtattgat tggacaaccc ctgaacatgg ttcaataaac 400

<210> 52613
 <211> 384
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-E3

<400> 52613

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cgaggaacat cagacaaagt aatgaggccc cgcgttcttg agagcctgca ggatcactac   180
gtctcccaaa taagcaccgg actggatcac actgtcgcag tgacaaataa gggcattgaa   240
ttcgggttcg gggacaacga gcgaccccaa ctggggcagg agtacattcg tgggtgctta   300
aaacctaccg ggataatgtt ccaaaggagt ttcgaagact taccaattgc ggggcctatg   360
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<210> 52614

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-E4

<400> 52614

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tactgtctg ttgctcaaaa catgcgtgag ctttatagat tggttctagt cgatacacca   120
ctggccccctt acttctcaga gtgcattaca tctgaggatt tggatgacat gaatattgag   180
attatgagga aactctctta caaagcatat cttgaggact tctacaaatt ttgccagaaa   240
ctaggtggtg caacagctga gatcatgtgt gatctccttt catttgaagc tgacagaaga   300
gctgttaaca ttacaataaa tagtattggt actgagttga caagagatga cgcaggaag   360
ctgtactcca actttggtta atggaatcca tatggccacg aagaattggc cgttggtgaa   420
gatgttgacc agtttcgt                                     438

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<210> 52615

<211> 145

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-E5

<400> 52615

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ctaattcacac ttcatatata aaaaatcatt atacaaacat acaacacatc cacaatcata 120

aacatacaat actaaaacca ccaaa 145

<210> 52616

<211> 340

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-E7

<400> 52616

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tttcaaaggt gtggcgcccc accacataaa ctataacaaa aaaaccactc tagaccaag 120

aacaccaaac aaaataatca acccccaaac tcacgacaac caccacaatc actacaactc 180

ccaaataaac accgaactct atcacactta cacacagaca aacaaacgca ttccattcac 240

caacacacac aaccaaccag cacaactaat ccaataccac aaccaacacc actcaaaacc 300

taccgagata accatccaaa aaacaatcca atacatacca 340

<210> 52617

<211> 241

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-E8

<400> 52617

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caatcacatt aatattgaaa atattataaa caacatctac aaaacaaatc tttaagacca 120

ttacaaatac taccacaaac tatcatcac aacaacacac atcaaattct aactactttc 180

aaattaaact cacataataa ctcttaacaa tacaataaat aacatagaca ccaaaatcac 240

a 241

<210> 52618

<211> 369

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-053-Q1-K1-E9

<400> 52618

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gtgcggttg aattaccact tgctctcaac cgtaccactt acaaggggtcg cctctcaagc 120
ctgatatcca tcgcacaagc cctgctgggt gcagcccggt ctaatcagaa acccctgctc 180
tctcttcgcg ttgaggggtcc agtttccttg tcttcgactc cttccatgct tcccaaggac 240
aagctcaagc tcaaacgggt ggccccaggc caagtggagc tctctcaca ggcgggggca 300
atccctgcta tcaccgaaga cgaggatgaa ccacantaac cctgattgtg gcctcttttg 360
gctctgaat 369

<210> 52619

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-F1

<400> 52619

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gctcactctg ggggtgaagat cacttacaac aaatcgatg ggaacccgca caccgtcaag 180
cctttgctct acaagccggt caccggccct ctgtcttgct gttaaacaac acatcttgct 240
ggaacgcata cgatagaaca tacatggatg aaaatatgta ttcgtgcca gactccatat 300
gacaatatgt aagtaaacac tgtagatgt aaatcaaaaa ttcacttgct aatggaagct 360
ggcatatgt ctgtcaacca atccttgta ggaaccagaa ttggcggcct aatggtggtt 420
attttaatgg ttttctt 437

<210> 52620

<211> 428

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-053-Q1-K1-F3

<400> 52620

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gggtattgat ttcattggccg tgattcccc tctcccagtc aaagccatcc aagccgcaat 120
tacttcaggg acaggggtgtt cactggggct agaaggattc tgttcttatt gcacgacaca 180
tgacaacata tccaagtagt ccttgattga tttagcagca gggagtaagc gtcttgctaa 240
aagtggctcc acangtgaac ttagcgatcg tcttgctaaa agtgggtgta aaggtgatcg 300
ctttgaagga aactcagggt caggaaggac acatgaatat ccgagaaaaa actccaaaga 360
atctttccaa aacctgatgg tggccttcta ccttaaccac ctttggaagt cttaggtggg 420
taattttg 428

<210> 52621

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-F4

<400> 52621

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caaagcgata gacctgatg atatcaaatt tcatcagtgt gtacgtttgg ctagatttga 120
gaatgataga actatatcgt tcatacctcc tgatggatct tttgatctaa tgacatacag 180
gcttagcact caggtaaaac ctcttatctg ggtcgaagca cagattgaga aacattctag 240
aagccgtata gaactcatgg tgaaggcaag gagtcagttt aaagaaagaa gcacagcaac 300
gaatgttgaa attgaagtgc ctgttccttc agatgccaca aacccaaata taagaacttc 360
aatggggtct gctgcatatg ctcttgagag agatgcaatg gtttggaata taa 413

<210> 52622

<211> 277

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-D7

<400> 52622

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aggcctgaac gccatcaciaa acttcgagat cagccgggtac aacgtggaga ccataatgag 120
cagcaacctt ccagtcacga gcatgtcgtc atcagcggcg gcggctgcgg attggccgga 180
gcagcaagga gctggagacc cctccgtccg actcgttga cggcagaagc ggcatgccag 240
tcttctaaac cagcacggaa ccgtcactgt taattcc 277

<210> 52623
<211> 288
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-053-Q1-K1-C10

<400> 52623

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agaatgcatt atcgaatctc aatggagcta tgagttctga aacccttttt tcttcccctt 120
gctgctcgcg gcatagcatt tggaaattga agtacaattt gtctttcagg atatactgaa 180
ttgatttatc attgtcctgc angacttga tgatagatcc gggttacgat accagcatca 240
aagccgncta gaagcaatac tgaactttca cttgagatgt gaagtagt 288

<210> 52624
<211> 483
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-C11

<400> 52624

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aatcccttct ggccgatcac aaatccctag aagctaggct gaggcacgcc gagaacaggg 120
cgatgatgct ggaggagatg gtggataaac tagagtcgca atgcaaggcg ctgtctgaga 180
cttcagaagt tctgaagctg caggccggag ctagcatggc ctctttgttc tgctcgatcc 240
agtttgtgct gctgtgcata gccattggga cctcctcgt tcgcttcctg tcctcttctc 300
cggagattgt acctacttga ggtagagaa ttatgccagt cagcctttat gtaggcgttg 360
ttgaacggtt ggttactgga acttattagg gcatcaatcg ccttacagat tttcggtttt 420

tgtaccatca actcgatttt gctagtaatt tctttatgaa tacgagttta ctgcacttct 480
 ggg 483

<210> 52625
 <211> 201
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-C2

<400> 52625

aagggccata aaataaaata gaaacacaag agtttgaaag acatgcatag aaagaggaaa 60
 caggagcagc ttttcaaaag gtctgcgcaa gctacgccga gaaactggtc cgatggcctg 120
 gtctgcacgt gctcatggcc ggctctgctc cggtgacctc tcgtgggtcg cagcagcacc 180
 gtgcacttac ggccctgag c 201

<210> 52626
 <211> 422
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-053-Q1-K1-C3

<400> 52626

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 gtgagctgct gcgggagaat aagcggatgc tggacaagtc catccgggag attgagaggg 120
 agaggcaggg cctgcaggcc caggagaaga agctcatcaa cgagatcaag aaggtggcca 180
 agcagggtca gatgggagct gtaaaaatta tggcaaagga tcttatccgc acaagacacc 240
 aaatcacana attctatgca ctcaagtccc agctacaagg tgtatctcta cgtattcaga 300
 ctctgaaatc aacacaggcc atgggtgaag ccatgaaggg tgtgacaaaa gccatggggc 360
 agatgaaccg ccggatgaat ctgcctgcct tgcaaaaaat catgcggaag ttggagatgc 420
 aa 422

<210> 52627
 <211> 271
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-C5

<400> 52627

ctggacaagt ccatccggga gattgagagg gagaggcagg gcctgcaggc ccaggagaag 60
aagcttatca acgagatcaa gaaggtggcc aatcagggtc agatgggagc tgtaaaaatt 120
atggcaaagg atcttatccg cacaagacac caaatcacia aattctatgc actcaagtcc 180
catctacaat gtgtatctct acttattcag actctgaaat caacacaagc catgggttaa 240
tccatgaagg gtgtgacaaa atccatgggg c 271

<210> 52628

<211> 233

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-C6

<400> 52628

aaaaaaaaa aaaaaaaaaa aaaaaataaa aaaaaaaaaa aaaaaaaaaa aaaaaacgaa 60
aaataaacaa taaaaaccca aacaaaaaaaa aaaaacaaaa aaaaaaaaaa acaaaaaaaaa 120
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaa aaaaaaaaaa aaacaacaaa aaaaaaaata aaaaacacac aac 233

<210> 52629

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-C7

<400> 52629

ctacaccctc cgtccgccgc caagtgtttt atcttgggca agaagaagac tctgtctgaa 60
cttctacggg agaataggcg gaccctggac aagtccatcc tggagattga gagggagagg 120
cagggcctgc aggcccagga gaagaagctc atcaacgaga tcaagaaggt ggccaatcag 180
ggtcagatgg gagctgtaaa aattatggca aaggatctta tacgcacaag acaccaaatc 240
acaaaattct atgcactcaa gtcccagcta caaggtgtat ctctacgtat tcagactctg 300

aatcaacac aagccatggg tgaagccatg aagggtgtga caaaagccat ggagcagatg 360
aaccgacaga tgaatctgcc tgccttgcac aatatcatgc gggagtttga gatgcaaaac 420
tagaaga 427

<210> 52630
<211> 172
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-D1

<400> 52630

aaataacact gacgcagaag gaaggctaac acttgcctgat gctttgggtct atgcttgcag 60
ccaatgtgtt gaaaagatta ttgatttggc aacgctgacc ggcgcttgcg ttgtcgcact 120
cgggcctagc attgccggaa ttttcacgcc gagcgacgag cttgcccaagg ag 172

<210> 52631
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-D10

<400> 52631

gcttctgtgc tgctgaagac gctgttgcta cctcgcccaa atctgttttc cactgctttg 60
gcggggagaa cgtggagagt gctcctctc ctatgaagaa ggactacaag ctggctaatac 120
ttctctgctg ggaggaggaa gcggatgcca tggaggagaa ggccgggagtg cttgatgagt 180
aagacgggct tctggggctg atttgcttct gagttgttta ttttatatcg tcgcaatttc 240
gtggttgcg tttgggttatt ctgtgaagca gccaaaccag gctattgtta tgaaaatttg 300
tcgtctgtaa gcatgtgaac ttccgatgtt gccacatgct ggatcagtct gaataagtaa 360
gtatgcagct ctaggtggtc agctgctct accacaatga gcatgaacgt atggagaaat 420
atctgtgaac ccattttgtt tatgaataag at 452

<210> 52632
<211> 457
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-D12

<400> 52632

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ctacgagaag cttgctgttg atctgaagcc aggcaagtgc atattgtgtg ctgatggtac 120
catcactctt actgttcttc actgtgataa agaacaaggc ttggttcgct gccgctgtga 180
gaacactttc aagcttggcg agaggaagaa tgtaaatctt ccaggagtta ttgttgatct 240
ccccacactc acagacaagg acaaggagga catccttaaa tgggggtgttc caaacaagat 300
tgacatgatt gccttgtcat ttgttcggaa gggttcggat cttgtggagg ttaggaaggt 360
acttgggtgag catgccaagt ccataatgct gatgtcaaag gttgagaatc aagagggagt 420
agctaacttt gatgatatcc ctggcaactc tgatgct 457

<210> 52633

<211> 270

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-053-Q1-K1-D2

<400> 52633

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gcatggacgt gagcggagca tgcggtaagg cgaagaaggg cgcgccgggg cgcaaggccg 120
gcgggccgac gaagaagtcg gtgtcgcggt cctgcagggc cgggctgcag ttccccgtca 180
gccgcgtcgg gcggtacctc aaaaagggcc ggtacgcgca gcgtgtangc acgggtgccc 240
ccgtctacct cgccgncgtc ctggagtacc 270

<210> 52634

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-D3

<400> 52634

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ggtggccggt aacaaggacc tctaccttgg gacgttcagc accgaggagg aagctgcaga 120

ggcctacgac atagcggcca tcaagttcag aggcctgaac gccgtcacia acttcgagat 180
cagccggtac aacgtggaga ccataatgag cagcaacctt ccagtcgca gcatgtcgtc 240
atcggcggcc gggcagcgg gtggccggag cagcaaggcg ctggagtccc ctgctgctgg 300
ctcgtttgac ggcagcagcg gcatgccagt cgtcgaagcc agcacggtac cgccgctggt 360
cattccggtg a 371

<210> 52635
<211> 224
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-D4

<400> 52635

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aaaaaatata aaaaaaaaaa aaaaaaaaac aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaatcaaca aaaacaaaaa aaaacaacaa aacaaaaaaa 180
cacaaaccaa cacacaata aactaaaca acatcagcaa caat 224

<210> 52636
<211> 354
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-D6

<400> 52636

cgctccggc ggcggcgatg acaacgcgct tcaagaagaa ccgcaagaag cgcggccacg 60
tgtccgccgg gcacggtcgc atcggcaagc acaggaagca cccgggaggt cgcggtaacg 120
ccggtggcat gcaccaccac cgtatcctct tcgacaagta ccatccgggc tacttcggca 180
aggttggcat gcgttacttc cataagctcc gcaacaagtt ctactgcccc gcggtcaaca 240
tcgagcgct ctggtcgatg gtgcccaccg acaaagcggc ggaggccggc ggcgacaagg 300
ccccgcagat cgacgtcacg cagttcggct acttcaaagt gctcgggaaa gggg 354

<210> 52637
<211> 362

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-053-Q1-K1-C1

 <400> 52637

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 gagctcaact ctgatctgcg caagcttgcc gtgaacctca tccattccc tcgtctgcac 120
 ttcttcatgg tcggctttgc tccgctgacc tctcgtgggt cgcagcagta ccgtgccctc 180
 acggtccctg agctgacceca gcagatgtgg gatgccaaga acatgatgtg cgcggccgac 240
 ccccgccacg gccgctacct gacggcctcg gccatgttcc gcgggaagat gagcaccaag 300
 gaggtggacg agcagatgct caacgtccag aacaagaact cgtcctactt cgtggagtgg 360
 at 362

<210> 52638
 <211> 270
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-052-Q1-K1-H6

<400> 52638

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 accatccaac tgttgagaag tggttggaga agctggaaga aactgaaatg agaaccaaac 120
 tctatattaa gacctcaata gttacagtgt caatgatggc tggatatttg tggatgaat 180
 acatttataa gctggataag attacttaca acaagtngca ttcataataca tgctggatcc 240
 ccataactgt ctacatatgt ctacgcaact 270

<210> 52639
 <211> 87
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-052-Q1-K1-H7

<400> 52639

 ggcgtaagca gccatgcagg tatcaaaagg tatcagcgtc accaatcttc atggagcgca 60

catgctccac gcttccgcaa tacgcgc

87

<210> 52640
<211> 308
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-H8

<400> 52640

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ggtcagtgtg ctcaacgatg cgctcaagtc catgtacaac gctgagaaga tcggcaagag 120
gcagggtcatg atcaggccgt cgtccaaggt catcatcaag ttcttgacgg tcatgcagcg 180
ccacggctac attggagagt tcatgtacgt tgatgaccac cgatcgggca agatcgtggt 240
cgaactcaac gggagggtga acaagtgcgg cgtcatcagc cctcgctttg atatcggcgt 300
gaaagaca 308

<210> 52641
<211> 304
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-A1

<400> 52641

tggactcaca ggttgtgaca gttggaaagt ttcaaggagg tggagccttc aatgtgatgc 60
gtgattcggg aactataggt ggcaccttcc gagcctttct gaaagagagt tttaatcaat 120
tgaagcagcg gattgaagag gcgatttgtg ctcaagctag cgtgcagcgc tgcagcgctg 180
ccgtggactt cctcagcaag gaccgtactt tcttgccgcc gaccatcaac agccccgagc 240
tccacgactg cttcgtgaac gtggccggcg agatggtcgg ctcgaggaac gtgaggggaca 300
ggca 304

<210> 52642
<211> 267
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-A12

<400> 52642

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gtcgggcaaa gccaggagat cgctcccacc tttccaaca gctacaacgg ttcatcgag 120

acagtccaca tgaaaatgga gctttgaggg atggccgggg aaaaagaaag aaagaaaacc 180

ccagtccgaa gctcgacgcc gtcgtccccc ctgtacatac ggagaagaga ggacacagct 240

cgcaccggaa gcagcgggct ctttggg 267

<210> 52643

<211> 161

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-A3

<400> 52643

taaaaaaaa aaaaaaaaa aaaaaaaaa attaaaaaaaa aaaaaaaaa aaaaaaaaa 60

aagaaaaatt tacaacaac aaaaaaaaa cccaaaaaa aaacctaac aaacaaaaaa 120

aaaacaaaa atactacacc tttctatact tcccaaacc t 161

<210> 52644

<211> 302

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-053-Q1-K1-A4

<400> 52644

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atgctggtgc tgtccgggct gatcctggcc ggcaccgtga tcgcgctcac ggtggccacc 180

cccgtgctgg tgatcttcag cccgggtgctg gtgccggccg ncatcgcgct ggcgctcatg 240

gcggccngt tcgtcacctn cggcggcctc ggcgtcgctg cgctgtccgt gttctcctgg 300

at 302

<210> 52645

<211> 355

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-053-Q1-K1-A6

<400> 52645
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 ggtcnancgg atgcgggatgc catcccgttc agctacagcc agctcgacac catcctgagg 120
 atgttttcgga tccctcgggg gtccaagaag gcagagcaag tcgccgccac gtcctggaca 180
 tgcgaggetg agtccccaga ggctcatgcc tgcgccacct ccgagcaggg gccggccgac 240
 ttcgctgcct tctcgctcgg ggtcagggcc agcaagctgg tcgcgctcgt caccaccgtc 300
 catgggggga aagacgccac tagatacgtg gtggcgccca acggcatcac acgca 355

<210> 52646
 <211> 360
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-053-Q1-K1-A7

<400> 52646
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 gtcctataaa tgtcaccgtt cacatattga tttggattcc attttggtgt tacacagatc 120
 cgaattgcaa cctgtattgc atttattggg agctcgggtg ggaaaatgtg catattctgg 180
 aggaagcaaa attatttctt gccaaattga gattcagtag aggtgcttat tctgttcttt 240
 gcagagagat gtatgaatgc aagatctgta cttccatggc aaatgaactg tgcaatatga 300
 gatggtacga gaatgttgca catcatgaac gaaagtaaag agctttatat agcatacagc 360

<210> 52647
 <211> 322
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-053-Q1-K1-B1

<400> 52647
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 ccggagccga gcgtgaggca agcaacgcgg accgtgagca cggcgaggag tcggacagcg 180
 aggaggagag gagggccgc aaggcaaaga ccttcggcaa gtcgctgctg ccggagcgca 240
 gcagcttcaa gggagctgcc gccttcaaga agccaaagtt caggtgaatg ctgccttcgg 300
 caattcgctc gtgccaaagt gc 322

<210> 52648
 <211> 314
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-B10

<400> 52648

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 gcgcccgcac gagacggcgg agctggacgc ggaggcggcg ctgggcgggg agtcggcgga 180
 ggagcgcaac cgcttctctg tgctgctggc gtacgaggcg ctcaacgccc gcgacgcgcg 240
 ccgggcgcag gagctgctgg cgccggacct cgagtgggtg ttccatggcc ctcccgtgcg 300
 ccagcacatg atgc 314

<210> 52649
 <211> 440
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-053-Q1-K1-B11

<400> 52649

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 gaacactgcg gacaccacta tctacagcat cgagaagagt cttggagagt acagggacaa 120
 gatcccggca gaggttgcac ctgagatcga ggcagccatc gctgacctgc gacaggagat 180
 ggcctcggat gacatcgaga agatcaaggc caagcttgag gctgccaaca aggctgtctc 240
 gaagattggt cagcacatgt caggtgggtg ctctggcgac tcacagtcgg gatctggacc 300
 tcagggtggc ggtgaccagg cgccggaagc agagtatgaa gaggttaaaa agtgaagctg 360

cnggaagttg aggcgaaatt gtagtgacct gtttagaagt agctactctt ttttgggaac 420
acagatagtc agatgagatg 440

<210> 52650
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-B2

<400> 52650

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cggctcgact gtttatgttg acaatgggct caatacaatg gggcttgcaa ttgacagccc 120
taccataacg tcatagatgt ggttggtgga gatagacgac ctttctgct gcattgcggt 180
atcatccttg aataaagatc atagttagtt ataaatatga gaggtaaggg caggaaaggg 240
ggaaaattat gaactggtct tttgcgctat ctttgcgga gaggaacatt agagcgattt 300
ccaaaatgat gggatgctaa tatgtgattt catatgattc aaaagcagta caataacttc 360
ctagaataag ctgcataact atacttatgg ttaaaaaaaaa accatatat 409

<210> 52651
<211> 59
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-B3

<400> 52651

aacaaacaaa acagagaaac acagacaaga ttattcataa aaaaataaga aaaatgaaa 59

<210> 52652
<211> 107
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-B7

<400> 52652

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aattaaaaa aaaaaaaaaa ctaaaacaac aaatacaaa aataaaa 107

<210> 52653
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-F7

<400> 52653

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gtggcagaag agcttatctt tggggatact gaagtgacat ccggtgcgtc gtcagatttc 120
caagcagcga ccgcaatggc gagagcaatg gttactaaat atggcatgag caaagcaagt 180
cgccttgtct cttataacta cgaggacgat ggaaagagca tgagctcaga aacgagactt 240
gcatcgagc aggaggtgaa gaacttcttg gagaatgcat acagcaatgc gaagaccatt 300
cttacaaaac acaacaaaga gctccatgct ctagccaacg cacttcttga gcatgagacc 360
cttacaggag cc 372

<210> 52654
<211> 256
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-G1

<400> 52654

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aacatgtctg ccttgtctct tataactacc aggaccattg aaagagcatt agctcataaa 120
ccagacttgc tatctagcat gatgtgaaga acttttttga gaatgcatac agcaatttcta 180
ataccagttt ttcaaaacac aacataaagc tccatgcttt atcaaccac tttttttgca 240
tgagaacctc tcatga 256

<210> 52655
<211> 361
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-G10

<400> 52655

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 taagactatt gaaagggcga tccaagttca tgaagatttc tcaagtgtcg tgaaccctgc 180
 agagttatta gaatgtcact tcacaagggt gaaagctctt gagaatgaat atgggtcttg 240
 tgaaattgtt taacctggga cagaaatagt tcaaagagct ttcaccaa atccagtc 300
 cctacatgaa gcatacaaag gggaaattgt tgggctggta atatccaaa atgaagcttc 360
 a 361

<210> 52656
 <211> 328
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-G11

<400> 52656

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 tgctatgcca atgctagata gagctaggcg ttacctcct tcaggagat cttatgacag 180
 gaggcccca gctccagttt acctgaagaa aagtccaagg agagaatacg gtaggcgtga 240
 tgaacttctt cctccaagga gcatagctat gattgattac agtcctagag ttccagttga 300
 tagacgtcct tctttgaggg atgattat 328

<210> 52657
 <211> 439
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-G12

<400> 52657

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 ggtgaacctg gaggttgtcat ccgaggaaag aagggcactg gaggcattac tatcaagaaa 180
 actggcatgt gcttgattat cggtatctat gatgagccaa tgacttcagg gcaatgcaat 240

atggtggtgg agaagctcgg cgattacctg atcgaacaag gcttctaagt ttgtcataat 300
gctatatttg tcatggggca ctttaagttt caccttattt ggttctgtaa tatgtgggct 360
tgtgcatgtg cttggcgtat tggatgcagt gaataattta tcttcgcgtt gggttggtga 420
caatgttggg aaccgattt 439

<210> 52658
<211> 402
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-052-Q1-K1-G2

<400> 52658

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tgtactggat ttgcagtcaa tgctactggg atggccaacc aactacaact aggaaatagg 120
ttgccctgng caaactattc aactaaacta atcgcgactc accactagtc ggctagttgt 180
tgctcaggtg actagacttg atttatgatt tggaaacact agtagctgct tatcttttat 240
ttacgctagt taccctcaaa agaccaccaa atgttattat acacattcgt agcaatcgta 300
taaggttata ttatgctaca gtgaacgatg tgccaaaaaa tggataagcg tgttcattta 360
aattctaaga gagccatttt tatgtcctgc tggatacaac aa 402

<210> 52659
<211> 329
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-G5

<400> 52659

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tcttattatc agttgctaga ctgcaattgg gcttatgttt gttcactcaa tttttagta 120
aacagaattt ggtataccaa ggggatctat ataacaatgt atgccataaa ttttctgtct 180
accatttctc atgaaatgct taaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
aaaaaaaaaa aaaaaaattt aaaaaaaaat tttttaaaat ttatttaata ttaaatttga 300

ttattttatat ttattataat taaatttaa

329

<210> 52660
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-G6

<400> 52660

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ctcctgccag gctgcgcatc ctttctccag ctctctgata agctagccag cgtcgtcgtc 120
gtgtcttgtt agttattagc tctatctcgc cgccctgcag ctgctgatcg agtgagggaa 180
ttcagcagca gcagcagcag gtagcatagc atagatatga cggcggcgga ggtggaggcc 240
gccaaaggaca tcgccgagga gaaggccgtc gtgccgttgc caccgtcgcc cgccaagccg 300
gccgacgacg actccaaggc catcgtcgtc cttgtcgtca aggacgtgc tgctgggaaa 360
ccttctacag ctattatt 378

<210> 52661
<211> 274
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-G8

<400> 52661

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gtgcgatccc aagccgctgg tgggtgtgca tccggcgctc atggacggag cgaaacccgc 180
ggcagcatgc tgctccaccc tgcgtgcgca agaggcatgc ttgtgcgtgt acgccaaga 240
ccccaagttt gcaaaatata tcaacaaccc caac 274

<210> 52662
<211> 78
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-H1

<400> 52662

cccacgccac ccagaaaaaa aaaaaacaaa aacaaaaatt caattaaaaa aacaaaacaa 60

aaaacaacac gaccgatt 78

<210> 52663

<211> 353

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-H10

<400> 52663

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gtcatccata ttcacctgca caactgttgc cagtgaagtt ggaccctaata gaaggaactt 120

tacacatttt agttcgtgca aatctaaagg aagacccaaa ggtgaccgga tctgcacatg 180

ctctttttgt caaaggggtt tacataaaag aacctgggaa attaaatctg actccaagtt 240

gcaatcatag tgtcattact atcgatggaa atactgatat tgagttgttc tggaatgcta 300

aagatttact cagagtcagt cgtgttgaca caaatgagaa caatgggtgtt ctt 353

<210> 52664

<211> 277

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-052-Q1-K1-H11

<400> 52664

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tactgaccga ctccgagccg gccgtgtccg tgcagctcgg cgaccacggc cacctcgact 180

acttcacac caaccaggcg ctcttcgnc ccacgtcggt cgcggccaat gacgaggtgt 240

tctgcctgtt cgaggggggtg ctggacaacc tgggtcg 277

<210> 52665

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-H12

<400> 52665

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gaccacgtgg gaccgacaag ccattgcttc ccttcagcaa ggcagacgaa caagaagata 120
agaaggatgt gccgaggccg gtgacatact cctactcttt ctttcacctc atcttctccc 180
tggtccagcat gtactcggca atgctcttga ctggctggtc aacttcgggtt ggtgagagcg 240
gaaagcttgt ggatgttggg tggccatctg tctgggtcag gattgcaacc cagtgggcga 300
cagcaggtct gttcatatgg tcgcttggtg caccctgtgt ctttcccgac agggaattct 360
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tatcaagtat 430

<210> 52666

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-D4

<400> 52666

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tcagtatttt ggtgaacctt tcttcttctt aattcgtgat ggtgaagctt tgtcggatat 180
gaaagtacgg attcagaaga gacttcaagt tcctgatgag cagtttctaa agtggaaatt 240
tgctcatgtt acattcagta agccagaata ctttcaagat tcagatattg taatgaacag 300
attccataaa cagagacctt gttatggagg ttgggaacaa caccttggat tggagcatac 360
agtcaccaac caaaaaaggc cctacttagg caacaaccag aaccgccatt cttttgagaa 420
gcctgtgagg attta 435

<210> 52667

<211> 345

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-052-Q1-K1-D7

<400> 52667

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tctcaacccc aaggccaaca gagagaaaat gacgcagatt atgtttgaaa ctttcgaatg 120
cccagcaatg tatgttgcta tccaggctgt tctttcgttg tacgctagtg ggcgaacaac 180
tggtattgtg atggattccg gtgatgggtg gagccacacg gttccaatct atgaaggata 240
cacacttntc catgctattc tccgtttgga tcttgccggg cgtgacctca ccgaccacct 300
aatgaagatc ctcacagaga gaggggtactc ccttactacg agcgc 345

<210> 52668

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-D8

<400> 52668

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gcttgctaag tttatcgtga acaaacttga tttgacggaa aaagatattc ctgctttggc 120
tgatatagtt ggcgacgagg acaaggctaa agaaattggt gaagcagcaa aggcttcaat 180
gggccaggat ctgtcaccag ttgatttgat caatgtccag caatttgccc aaagggttat 240
gaatctctct gagtatcgca aaaaccttta tgagtatctt gtgactaaga tgaatgatat 300
tgcaccaaac ctgacatcga tgattgggtga agtacttgga gctcgtctaa tctctcatgc 360
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<210> 52669

<211> 317

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-E10

<400> 52669

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gattgatttt gggattgttg gtcgaatatc tccaagaact tgggcagcta tggaggtctt 120

tttggcttct tttgcaactg aggattatga tgctatggcc tctgccctct ctgaaatggg 180
 tgctacaggg aatgatataa atactaatga atttgcaaag gacctgcaa agatattctc 240
 atcgattcag gacctggata ctgaaatcat agtggcaaca gcaaggaccc cttattcttc 300
 aacaggatct gcttatg 317

<210> 52670
 <211> 312
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-E11

<400> 52670
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 atatcgctat gatcggcggg ccaaccgta caacataggg atctcgaaca acttcattgga 180
 gatattctgc accgcagtcc ctacttccaa gaacaacttc agagccaggg tcccagtaga 240
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 acccgcttgg ga 312

<210> 52671
 <211> 421
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-052-Q1-K1-E3

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 caagaagggc tacatccgc tcaccaccta cctccgcacc tacaagatcg gcgattacgt 180
 cgatgtcaag gtgaacggcg ccgtccacaa ggggatgccg cacaagttct accacggccg 240
 caccggtcgc gtctggaacg tcaccaagcg cgccatcggc gtcgaggtca acaagcaagt 300
 caatgggcgc atcatcaaga agcgtatcca tgtccgtgtg gagcatgtgc agccgtncg 360
 ctgcacagaa gatttccgcc tgaggaaggc gaagaatgac cagcttgagg cggatgccaa 420

a

421

<210> 52672
<211> 414
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-052-Q1-K1-E4

<400> 52672

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tagtactgta tcaacaccta ctgcaaaagg aggcccgta ctcccaagtt atgccccact 180
tggatatgga ctggtgggag cttataatcc acgtggaaag ggattggcag atgcttataa 240
taaccccctt ggaaatggac tggcaggtgc ttatggtgtg ctttccgctc gtgctgcaca 300
gccaatggtg tatgctccag gtgctcctnc cggctcaaca atgatcccaa tggctcctacc 360
agatggccgt cttgtatacg taccacanng ccgcgngcag cagcctgtgc atgc 414

<210> 52673
<211> 302
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-E5

<400> 52673

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gccggggtgc tgcgggtgga ggtggagccc tccggcgggg acttctggaa gcttgacccc 120
attatcgacc tcatcaatcg cggcgccgctc ggggtgatcc ctactgacac cgtctactcc 180
gtcgtctgtg acctgagtaa caatgaatcg attgagcgcc ttgcgagact gaaaggcatt 240
ggagactcca agcctctcag catcctgtgt cgctcattac gtgacatcga tacctacaca 300
ac 302

<210> 52674
<211> 400
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-052-Q1-K1-E6

<400> 52674

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gagaacggcg tcctgtggga ggtcgaggga aagtgggtca cccaagggtcc tgttgatgtg  180
gacattggtg ccaatccatc cgccgagggt ggtgaggacg aaagcgttga tgacacagct  240
gtgaagggtg atgatattgt tgacacattc cgtctacagg agcaacctnc ttttgacaag  300
aaatcatttg tgtcttacat caaaaaatgc atcaagaatc tcaactgctgt gttggaacca  360
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<210> 52675

<211> 368

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-E7

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gcatgctgcg ctttgcattg tgcttgtgat aatgtcttca acactttcat cttgcgagga  120
cgatgagaag gtatctatcg catgtgacac aggatgcaat gccgcgatct cccgtctcaa  180
atgcttcctg atggcctatt ctgaaggga aagtgttggtc agcagcaact gcgaaacgcc  240
gaccagggtg ggctgcgtgt ttcgtcacia acaagatgca acccttatcg ccggcgacgt  300
tggcaacaaa aagggatatt gatggcagac gtgtatttct tggttgaata atatatactg  360
ctagaatt                                     368

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<210> 52676

<211> 320

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-E8

<400> 52676

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cgacagcaat gttcatagca tggagctggt cgatgaggtg cagaaggtcc agtggatggg 180
tgctgtattc gtccgaatcc ttgcgcatac tggcacggca gaccaactac ggctcatcga 240
ggaggacaag cagaatatgc cttttccagt ccaaggccct gcttgcaact tctcagggca 300
tctgattgga tggcacacgt 320

<210> 52677
<211> 172
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-F10

<400> 52677
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tgttctcca aaaaaaaaaa aaaaaaaaaa aaaacaaaaa aaaaaaaaaa aaaataaaaa 120
aaaaaaaaa aaacaaaaac acataaacia cataaaaaaa aaaaaaata aa 172

<210> 52678
<211> 361
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-052-Q1-K1-F2

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ggaggcaagg cccccgcaa gcagctcgcc accaaggcgg cgaggaagtc ggcgccgacg 180
accggcgcg tgaagaagcc ccacaggtac aggcccgaa ccgtggcgct gcgcgagatc 240
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c 361

<210> 52679
 <211> 439
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-052-Q1-K1-D3

<400> 52679

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 gctgcgccct cacttccctc catggtgaga tcgcccattg tggctccctc tgctcggcgt 240
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 atggatgcct agttgttgac ttgtgcaatt catagtcatc ggtgaggctc ctttgtctta 360
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<210> 52680
 <211> 407
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-052-Q1-K1-F3

<400> 52680

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 cagccagcta gctactgctt actctcaaca gcaacaattt cttccattta accaattggc 180
 cgcactgaac ccctctgctt atttccagca gcaaatacta ctaccatttg gccagctagc 240
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 tgtggctaac cccgcaactc tcttacaact gcaacagttg ctgccctttg tccaacttgc 360
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<210> 52681
 <211> 419

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-052-Q1-K1-F4

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<210> 52682
 <211> 383
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-052-Q1-K1-B3

<400> 52682
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 gaagctgaag aagaggggct atgaggtgct gttcatgggt gatgccattg acgagtattc 180
 tattggacag ctgaaggagt ttgagggcaa gaagctcgtc tctgccacca aggagggcct 240
 gaagctggac gagagtgagg atgagaagaa gcgcaaggag gagctcaagg agaagtttga 300
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<210> 52683
 <211> 300
 <212> DNA
 <213> Zea mays
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caggccctcc gccatcgccg accagccgcg cgtcgaggtc ggcggaccgc acatgcgcac 180
cttctacacc ctctgtgatg tagatcctga tgcgccgagc cccagcgatc ccaacctcag 240
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<210> 52684

<211> 308

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-B7

<400> 52684

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aagctttttc actgacctcc ttgtcgtcgg tgagaaccgc caaacatttg atctagaagg 240
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<210> 52685

<211> 269

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-B8

<400> 52685

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ccgtctccta caggtaactc cctagcgtcc acgacctcgc gtcggaatcg gacgtgctcg 180
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cgctcggaag gacggggtcg tggtaacat 269

<210> 52686
<211> 153
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-C12

<400> 52686

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gaacaggaaa gaaagtaaga agcctcgagg gct 153

<210> 52687
<211> 414
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-052-Q1-K1-C2

<400> 52687

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acagtggaag caccatgagg tcaaggtgaa ggactccaag acccttctct ttggtgagaa 180
ggaggttgct gtgtttggct gcaggaaccc tgaggagatc ccatgggggt cggttggcgc 240
tgaatatgtt gttgagtcta ctggtgtttt cactgaccag gagaaggctg cagctcactt 300
gaaaggtggt gccagaagg ttgtcatttc tgctcctagc aaggatgcc ccatgttcgt 360
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<210> 52688
<211> 205
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-C4

<400> 52688

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aagaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 acaaaaaaaaa cataaaaaata aataa 205

<210> 52689
 <211> 381
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-C5

<400> 52689

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 ttgggaacgc cagagatgtt agcagcaagg cacaatgttc tccaaagagc gcctcaaagg 240
 ctggatcagc tactagatcc agggtcacca aatccaggga agacctgaaa gcttccgtga 300
 agaaagtggg actgccaagc gccgcgaact tcgctgtaca aacctaactc atcaggcatt 360
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<210> 52690
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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-C7

<400> 52690

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 caccgggacg caaggcgggc cggtgactat ggtgtcggcg aggaagtgcg agtcgcagag 180
 ctcccgcttc aaggacatt gctcgaggga cgccaactgc gcaaactgtc gcctgaccga 240
 aggtttcacc ggcggcgtgt gcaagggcct acgccaccgc tgcttctgca ccagggactg 300
 ctagtactgc ctctctctgc ctgcctctgg ctctgtctct gcgtgtgcat agccgcagcg 360
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<210> 52691
<211> 378
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 52691

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cttcgtccaa aagcgtctcc tggtagccggc actcgtctgt gcagaacgct ttatggcctc 180
gatagattaa gatgtcattg ccatgtccaa gttgcttggt gcatgcatgg caagagctga 240
agaagccaca ggcagcagct gctgcgccgt cggccgcggg cttgtcggct agcaaattccc 300
cgcagctctc aacgatgcag tcgtcgaaga tgtgcgtggt cctcgggttg gggccgcgcg 360
agatgacgca ngtgtagt 378

<210> 52692
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-C9

<400> 52692

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ggacagcagg cgaagtcgct tcttgggata tctggataat aatattcttg gaagctcgat 120
gcagaaaagg acaaagtaaa tacagcaagc ggggctggcc attaatactg acagccgcag 180
gggctggcgc gtggccgcac tggaatcgga aatttggtgc aaattgggct cttcgaagat 240
ttgaccaatt gagcccatgt caccttgag tccaacatgc gctgaattca ttactaatt 300
tagtcaaagg caggttttgt gaaatacgcc caattgccag tatggcgtct tcacattatg 360
tcgaagaagg aaatcgattg agttatgtgt ggtgaaagaa agtgggtaga caaatattac 420
tgactggtga aagc 434

<210> 52693
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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-D10

<400> 52693

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ccgtgttggt gaagccagag atgagctcca caggatgctg aacgaggatg aactacgtga 180

tgctgtgctg cttggttttg ccaacaagca agatctttcc aatgccatga atgctgctga 240

gattactgac cagcttggat tacacttcct gcgccagcga cacttgtaca ttcagagcac 300

<210> 52694

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-D11

<400> 52694

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ggtgtgcat catcatgttt gatgtaacct caaggcttac ttacaagaat gttcctacgt 120

ggcatagggg cctgtgcagg gtctgtgaaa acatccccat tgtcctctgc ggtaataagg 180

ttgatgtgaa gaacaggcag gtcaaagcca agcaggttac tttccacagg aagaagaatc 240

tgcagtacta tgaaatttct gccaaagagca actacaactt tgagaaacct ttctgtacc 300

ttgcaaggaa gctggctggt gatccgaacc ttactttgt tgaagcttgt gctcttaaac 360

ctccggaagt taccatcgac atggctatgc agcagcagca tgaagctgag cttgctgcag 420

cagctgcac 429

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<211> 419

<212> DNA

<213> Zea mays

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<400> 52695

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cctctaagct gtctgatatg ctatgcctaa tcttgagaag tggccggacg aaatatgact 180
tctgaacttt tgggttaaaa ctgacacatg ttgatactgt tcaaagctgt tgtatgttca 240
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aaaaattgct agtagcattc agtatgtaac aaaaacatgt gagaacccat acgagaacca 360
cgcattggtga ccatcgncct gtgttctttt gtttatccct acctgtaaat atgtaatgt 419

<210> 52696

<211> 331

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-051-Q1-K1-H6

<400> 52696

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acgtactgca tgaacaaaga gtgcaagaag cacacactcc acaagggtgac tcagtataag 180
aagggcatgg atagcctgtc tgcccaggga aagcgccgtt atgaccgcaa gcaggcagga 240
tatggtgggc agaccaagcc tgtcttccac aataaggcca agtctactta gaatattgtt 300
ctgaagctgc agtgccagag ctgcaagcac t 331

<210> 52697

<211> 252

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-051-Q1-K1-H7

<400> 52697

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aggtatttct tccagcagtt gatctgtgga gtgagctatt gccattacat gcaaatatgt 180
catagagatt tgaagcttga gaatgttctc ttggatggca gccagctcc acggcttaag 240
atattgtgatt tt 252

<210> 52698
 <211> 253
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-A1

<400> 52698

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 atgccttaaa aaattgtttg gaaatcatga tgatcctgat gaggagaaca tttaaacatt 180
 atgcaaattg atgagtacaa ttggtgatat gattgatcat gttaaggcaa atgagcacat 240
 ggatgcctat ttt 253

<210> 52699
 <211> 379
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-052-Q1-K1-A10

<400> 52699

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 ctgcgcgggc gctgggcggc gggcgcgccc cgctgctggg cgggtggaac ccgatccctg 180
 acgtgagcga ctgcacatc caggagctag gcgggtgggc gctggggcag gcgaagcacc 240
 agaagctggc cgtcgacggg ctgcggttcc gccgcgtagt gcgcggccag cagcaggtcg 300
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 cctacgtggt cgtcgtgta 379

<210> 52700
 <211> 438
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-A11

<400> 52700

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aatcaataga agccgataat tctttggact atgcggcaaa tttctcacac atgcttggtt 180

ttgacgaccc aaaaatgctg gagctgatgc ggctctatgt aacaattcac actgatcatg 240

aaggcgggaa tgtcagtgtc catactggtc atctggttgg gagtgtctctg tcagatcctt 300

atctttcttt cgcaacggct ctaaattggc tagctgggac actgcatggc cttgcaaadc 360

aagaagtgtc tttatggatc aaatctgtaa ttgaggaaac tgggagtggg gttaccacag 420

atcaactcaa agactatg 438

<210> 52701

<211> 429

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 52701

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agcatatgca aagaggcttg ttgactatga tagaaatgct gcagcaagga ctaaagttta 120

tgatgaccaa agtgactact atgaaatgga aggaaacagt tggctctctt caaaggagag 180

gtcagtcctg aagcagcagc aagaggaagc tgaggaagca gctaaaatcc aaaagggtaa 240

agtgattgtt acatttgatt tgggtgggccc taagggtgatt ttgaacaagg atggaagtac 300

tgaggtggaa acagagcacc cgatcatgcg accgccggaa gagaaggacc agagccaccg 360

catacagncc aacccacaaa tcagagagca acctgtgttc gtcgaaacaa gtccagtcaa 420

accaaaaac 429

<210> 52702

<211> 436

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-052-Q1-K1-A2

<400> 52702

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aaaggctcat ggggcaagtc gctcgcgccg ttcccgcaag gctgcttcta ctccaacgcc 120

ctcggagggc tcaagtgcta cgagaacccc aagcacaagg tcaccgctgt ccccgccgac 180

gaagaagaga tctgcggtgc cactttcaag gtggtggaag gctctactgt cctgacggcg 240

ctgcactgat cggatcatcag ctggcgagg cgatgcgatg atgatgcaga actttgtaca 300

tgcgttggtg gatggtggtg gaacataatg gctgncaaca agtcatgctc atgcaaaccg 360

atgaatctat ctctggatca tcgatctcgg ttgcttgcta gtccagactc cagacatggc 420

tatatatata tagctg 436

<210> 52703

<211> 314

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-A3

<400> 52703

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aaattgtttg gaaatcatga tgatcctgat gaggagaaca ttgaagcatt atgcaaattg 180

atgagtacaa ttggtgatat gattgatcat gtaaaggcaa aggagcacat ggatgcctat 240

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ttgagagatt caat 314

<210> 52704

<211> 436

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 52704

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gtggcggtcc ccaagagcca gccgatgcgg ctctactcca gcctgtggaa cgcggaacgac 180
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 gccaccgtcg gcaccgaggg caccggcgcc cccgtctccg ncgncggcg cggggactgg 360
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<210> 52705
 <211> 375
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
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 <400> 52705

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 aagagaaacc atagccactg ccctgagggg ttcagatctt gtcttcataa cagctgggat 180
 gggagggggt actggatctg gtgctgctcc agttgttgcc cagatatcaa aggaagctgg 240
 ttatcttact gntggtgttg tcacctatcc attcagtttc gagggccgta agcgctctgt 300
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 aaatgattag ttatt 375

<210> 52706
 <211> 271
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-052-Q1-K1-A6
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 cagttattac tgaaaagata atacagtacc tatggcttct ctggacgccg tgcgaggaga 120
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gatccagtac gggccaagt tcatacagcaa cggggagcca aggcctgcgc agaacgtcga 240
 caagtccacc agcctggccc ggaaagtgtt c 271

<210> 52707
 <211> 325
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-A7

<400> 52707

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<210> 52708
 <211> 324
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-052-Q1-K1-A8

<400> 52708

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 cgcctcggcg cgtccatgca ctggacctac gaccgcgcgt cgggcgacct ccacgtcgcg 180
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<210> 52709
 <211> 322
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-A9

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tgctggccga ggctgctcc gcagttgtca gcagtgetag ccacctggat ctcgacctgg 180
gcttactgta ctctggtgaa cccccgagg agagccgtgg aacggtggcc gaggcctcg 240
cctaggagtc tgatgaggag ggccttgatc tggctggatc ccaccgtcgt gcgctctacg 300
gctgtaggta cattagctac gg 322

<210> 52710

<211> 168

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-B11

<400> 52710

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gcgagggttcg ggttcgtggg tgagcggatc gagatggcgg cgtcggatgt tgagtaccgc 120
tgctttctca gcagccttg cttggccaac gaccaacaat tccttcaa 168

<210> 52711

<211> 227

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-B12

<400> 52711

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tgcttcttcg gcggactcgc ctgagccacc gacgaccact ctctgtacaa cgccttttagc 180
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<210> 52712

<211> 360

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-051-Q1-K1-H4

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 catacattca tccttgacaga tttctgctac tactatgtga agagtcttgt tgggtggcca 300
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<210> 52713
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 <212> DNA
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 <223> Clone ID: LIB3079-051-Q1-K1-D12

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 acacactact cactctaaca cttttctaga cccactcaa gaataatctc agtcatata 240
 aatttataat ttttaccccc accctttttt tatgcctccc ctgatccac tactcattac 300
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 <213> Zea mays

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 <400> 52714

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<210> 52715
<211> 325
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<210> 52716
<211> 269
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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gacgaccacc agcactggta caaggacatg cgcttcagca cccgggtcaa ggacgaggaa 180
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ggccagtccc acccggtcaa gctcgcgcc 269

<210> 52717
<211> 139
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-051-Q1-K1-E4

<400> 52717

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<210> 52718

<211> 338

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-051-Q1-K1-E7

<400> 52718

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atacaggccg gagctcgaac gcctcgctt ctccactacc ctcacctccg acccgctccag 180
caaggtgaaa gttgtgttct gtccacctgg acctgtcaaa atcgcagcta tccggctgat 240
atataccgaa ttcaaagatt agaacttgct cagactgatt ctgatactgc agggcaaaat 300
aatgtttaca accatagaat gcatcaaggg gatctttc 338

<210> 52719

<211> 73

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-051-Q1-K1-F10

<400> 52719

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<210> 52720

<211> 274

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-051-Q1-K1-F12

<400> 52720

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nanaaattca aagagattgt caagtcttac gaatcaatta aatcttatag aaaaaactct 180
ttaaatttat tcaaacttcc acttttatct tatcaattgt taaaaactct taccttatca 240
ctctcgaatt aatttttctt tttatatatta atca 274

<210> 52721

<211> 55

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-051-Q1-K1-F3

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<210> 52722

<211> 51

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-051-Q1-K1-F4

<400> 52722

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<210> 52723

<211> 82

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-051-Q1-K1-F5

<400> 52723

cccactcgtc cgtatatata taccttttac cgtatactg tctcaaattc tcaactnaga 60

anatttatag ataggtcttt gt 82

<210> 52724
 <211> 241
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-051-Q1-K1-F7

 <400> 52724

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 ccttcttatg ctctttggtc tttctgcaag tgctgtact gctaccattt ttccgcaatg 120
 ctcgcaagct cctatagctt cccttcttcc cttgtacctt ttaccagctg tgtcttctgt 180
 atgtgaaaac ccaattcttc aactctacag gatccaacag gctagcacag ctggcatttt 240
 a 241

<210> 52725
 <211> 120
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-051-Q1-K1-F8

 <400> 52725

 taccggctcg gaatanncgg gggcgacgcy tccgcgcacg cgtccgcca cgcgtccgcc 60
 tactcgtccg ggccaaacga cgcgagagcy ctgctncttt tatataacca ccgcggtggc 120

<210> 52726
 <211> 99
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-051-Q1-K1-G1

 <400> 52726

 ccgttgataa agtttgcgct cttagctttg gtatttctac cggctcttggg gcatcaatga 60
 atgtttcaaa acctccgaag ggttcgacag tggctgttt 99

<210> 52727
 <211> 330
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-051-Q1-K1-G10

<400> 52727

cggactcgtg ggcttaaaat taattactta cagaagtctt ccagcaatta gaacgtacgt 60
gcgagttcca aggtatgcaa tggaaacott gatactgggg acagatctgt ggccatgtgg 120
tggattgtat gacctctccc acccactcat gctaagacaa acttgggttg ggcgcccacc 180
cttcgttcgt tgaatcatga gctcgagcct tagaggagaa ttttcagaaa aggaaatcta 240
catgcccagag tgaccatgta aatattttacc attgcagttc gcggacccat gagtaccaaa 300
aaaaagagat gattcatatt gacctgtaac 330

<210> 52728

<211> 117

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-051-Q1-K1-G2

<400> 52728

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aaaaaaaaaa aaaaaaaaaa aaaaaaagaa aatttttaaaa aaataaaaac tccaacc 117

<210> 52729

<211> 297

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-051-Q1-K1-G3

<400> 52729

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gtacatctgc ggtccgtgga ctggactgaa gcgagcaagc ctgcgccggc tccgtcgttc 120
tcccaaacag aaactgtagt tggatcaagaa ctgggatact gaggatgaata tgatctcaaa 180
tccggtggac tggatatagtt tctgaccgg atagaattgg tagggatgca agattggaag 240
gtgcgtgagt tcgaatgtta atttactgat gagtttgccc acaacaatag caacgaa 297

<210> 52730

<211> 56

<212> DNA

<213> Zea mays
 <223> Clone ID: LIB3079-051-Q1-K1-G4
 <400> 52730
 tctaccact catccggcaa gatgatctac tccagctcca attatagggt caagct 56

 <210> 52731
 <211> 76
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-051-Q1-K1-H1
 <400> 52731
 ttcccggtc taccactca tcctaaaaaa aaaaaaaaaa aaaaaaaaaa tttttaaaaa 60
 aaaacaacca ctctaa 76

 <210> 52732
 <211> 236
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-051-Q1-K1-H10
 <400> 52732
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 aaaaaaagac cgtattaaaa aaaaaaaaaa aaaaaacccc acccacaaaa aaaagggcc 120
 acctttctaa aacatccaag ctactcccc catccattcc acgtctatcc cttttact 180
 gccacctaaa ttcaaaccac ttcccaacct ttacaacat cttaactcca aaaacc 236

 <210> 52733
 <211> 241
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-051-Q1-K1-H11
 <400> 52733
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 cttataaata aaaaaatttt ccacacccaa ccaaaccaaa caaacatacc ctttcttcca 120

acactcaaaa ctcaatttca ctgcccacct aattacaact ccctgacctt catttcacaa 180
 cctcaaccct tctaaaaccc tttcctaccc caactcattt cccctccatc acatacccct 240
 t 241

<210> 52734
 <211> 64
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-050-Q1-K1-H12
 <400> 52734

aaaaaaaaat aaaaataaaa taaaaataaa aaaaaaaaaa aaaaaaaaaa aaaaaatata 60
 tatt 64

<210> 52735
 <211> 237
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-050-Q1-K1-H6
 <400> 52735

aaaaataaaa ataaaaatac aataaaaaaa aaaaaaaaaac aaaacaaaaa taaaaaaata 60
 taaaaaaaaa acaaaaataa aatataaaaa taaataaaaa aaatttttaa acaaaataaat 120
 aataaaatat aatcaaaaaa aaatataaaa tacaataaaa aataaaaaata aattaaaaaa 180
 aaacaataaa aaacaaaata taacaaaaaa ataaaaaaac aacaaaaaaa aaatata 237

<210> 52736
 <211> 306
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-051-Q1-K1-A1
 <400> 52736

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 gattatgatt tgagtatgac tcatgagatt aattcacacc cctgaaggta aatgaagtat 180

tatttgaggt tggatttgta tctgaaggta aatgaagtat tatttgaggt ttgtgttgta 240
tctgaaggaa gtgaagttta ttgatgtttg tagcatgcct tatacattgc atgactcatt 300
tgcata 306

<210> 52737
<211> 396
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-051-Q1-K1-A11

<400> 52737

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gtttgcttga taggatnttt ganctcgggt ctcgatcccc ttttgctcnt ctggagatag 120
ttgggatgcy cggagaagcy gctaaagttg gacatacggg gaattgaatt gccagaggct 180
gcagatacag aagtccgaat cttgatcttt ttgttcattc aaaacacgga tggatacaac 240
aagtaagcaa tccttccatt cttttggaag ttgtagcaac tgttccctag actatgttga 300
tgcaacctct ttgtatgagt tatcctgtag aacttcaccc gtttgtgcc taagtattct 360
taaaccttta aaaaaaccac cggcattttt tttttc 396

<210> 52738
<211> 254
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-051-Q1-K1-A12

<400> 52738

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tcccatatag agtacgggat ccgaganaga tcaatataaa agatactgct aaccaacca 120
tcctacatcn ttagtggcca aagagtaaag gcggagctga tagagtacca gatcctgtgc 180
tgccgagcac actcttctgg acagtggctt ctgctgctgc tccacccgaa atggaagtcc 240
ggcatggaca ggga 254

<210> 52739

<211> 131
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-051-Q1-K1-A3

 <400> 52739

 agctaactac cctcacgctg gctcgccacc gccgcctcag caggcgtggg aatctgttcg 60
 tcgctccctc ggagaatagg aggcagctct ctcttcgtcc gccattgctg gctcttccta 120
 cccctacatg c 131

<210> 52740
 <211> 97
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-051-Q1-K1-A4

 <400> 52740

 atgcaagcag cgccgcgtgc cccgctgtag caccaagtgg gtctgcctcc agactctgat 60
 cgtcttgtgc ctggtcgtct ccatcgccgt cgccgcc 97

<210> 52741
 <211> 251
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-051-Q1-K1-A6

 <400> 52741

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 cagtatgggtg aaggaagtgc agtgctgta ccgtggactc tagtaatgtg taggaacatc 120
 gaaaattatg ttttgaggga ccaggaaact ttgtatcggc aaaggtatct tgatcttatg 180
 gtaaaccatg tagtgaggca catcttttag acacgatcta aaattgtctc atttattcta 240
 aagttttttg a 251

<210> 52742
 <211> 268
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-051-Q1-K1-B11

<400> 52742

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atggctgggtg gcggtggact gaaccggtct tcatcgaggg ggcagctgcc gccgcaagag 120
ctgcttgacg atctctgcag ccggttcctt ctgaatgtgc ccaaggagga gctggagtcg 180
ttcgagcgga tctgttctt gctggagcag gcgcaactgg tctatgagga caactccgtt 240
gagcacaact ccaacctcaa gtcctctt 268

<210> 52743
<211> 341
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-051-Q1-K1-B12

<400> 52743

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tgcaatggaa gtcgcgaagc aagccnaaca ggagatactc agggctgatg ccagcataag 120
ccaaatcagc ttgcagctaa gattgggcca acaaataag caacttcagc tagcatcgca 180
agaacgtcgc tgatctacat gcaagagatc actgatccaa ttgctggctg cttcatgagt 240
ctactcggga gtatttcctt ttgctaattt ttctgacata cattaacttg gtctgcttat 300
gaagcaataa gctataagat tctaagaacc gactgtgtac a 341

<210> 52744
<211> 251
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-051-Q1-K1-B2

<400> 52744

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gccgtgtcgt gtcgtgcctt gtctgtcct gtctgtcct tcttggggct catctagcat 120
tcagactgtg ttgtgttgtg ttgtgtgtg tgggccgagt gtgcactaca gcatcgggcc 180

atgccctgt tgcgtctgtc tgcgacttta atttggttgt gctgtgtcat ctatctatct 240
aattcatcta t 251

<210> 52745
<211> 80
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-051-Q1-K1-B6

<400> 52745

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ggtttgtaga caggaatggg 80

<210> 52746
<211> 82
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-051-Q1-K1-B7

<400> 52746

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attttaaaaa aataggacag cc 82

<210> 52747
<211> 223
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-050-Q1-K1-G8

<400> 52747

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ttccactact tcaccacctt ctctctcttt tatttttcca atttctacaa ccactctctt 120
aaaatccttc ctcttttaac tttaacatat actatctata ttaattcaat tctccttacc 180
tctctctctt catcttcttc taattctttc ttcttctctc tat 223

<210> 52748
<211> 176
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-051-Q1-K1-B9

<400> 52748

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aaaaaaaaa aaaaaaaac cgaaacgttt aaataaaaaa attaaaaaaa caaaccacaa 120

aaaaaaaaa aaaaaaaaa tntcctcctt ttaaatacac ccaatcctta attaca 176

<210> 52749

<211> 317

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-051-Q1-K1-C10

<400> 52749

accggctgga naccggggcg ggacgacgcg tcggggccggg ttaaaaaaca cacctagctt 60

agctcactag caacgaccta acaacaatgg ggngcatgat attatacgtc ctcccacccc 120

tccccctact tganagtcca acaaattcct tcattattcc acaatttctca cttntccta 180

ctgccattat tccacatttc ctccctccan ttacttcaat antcttctaa caccatctn 240

ttcaaacctt tattctacaa caatctctta tcactatcat cttaaaacaa ccatattccc 300

aattacaaca acaattc 317

<210> 52750

<211> 94

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-051-Q1-K1-C4

<400> 52750

ctgctcgtct cccgtccgtt ttctgattcc cactccgacc aaaaccctat ctacttggtg 60

attgtggagg ggaggagatg gcgtcagctg atgg 94

<210> 52751

<211> 61

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-051-Q1-K1-C6

<400> 52751

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c 61

<210> 52752

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-051-Q1-K1-C7

<400> 52752

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gtaccgcccc gaccctcctc cctctcgcgc ctatggccca gactgttggtg ctcaagggtg 120

gcatgtcctg tgagggctgt gttggagctg tcaagcgggt cctcggcaag atggaaggcg 180

tcgagtccta cgacgtagac atcatggaac agaaggtcac cgtgaagggc aatgtgacac 240

ctgacgccgt cctgcatact gtttcaagac tggcaagaag acttcgttct gggaggctga 300

ggccgttgca agttaattct tcacacctgc cgggtgccacc gtctgacatg gtcgatgatc 360

t 361

<210> 52753

<211> 190

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-051-Q1-K1-D10

<400> 52753

accggaacgg annaccggc gggaccgacg cgacggaaag gcatacacta cgccccacc 60

catgactaca accagacgag caaccnnttc atccgatcat ggaataaagg gtgtcccacc 120

acatcaccaa ncccaacacn acngacatga ggcgggacgc cggcaccgac agggatgatg 180

ggggggctgg 190

<210> 52754
 <211> 238
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-050-Q1-K1-D3

 <400> 52754

 ggcgtcggca atcctgaccg gatcaacaaa tacgtagcta cccctcccg cgtgcgtcta 60
 gttcgctcc gccgctgct cgatccggtg ggaattcgcc gctgccgggt tgttttcgct 120
 ggggtgatta aggctcggga ttcgagatct acgcgagtcg cgggcaagca gccatgagcg 180
 aggtgttcga gggctactag cggcagtact gcgaggcctt cgtcttgctc ttccgcaa 238

<210> 52755
 <211> 173
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-050-Q1-K1-D4

 <400> 52755

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 tctcctcacc gaggtccgca agaactgcac ctgctccttg cttatgccct actgcaagac 120
 ccatgttact ttttattact tatactaatt cattttttta tttccttttt ttt 173

<210> 52756
 <211> 274
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-050-Q1-K1-E1

 <400> 52756

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 gcattctgtc atatcgttta agcccacaat ggtaacgata ctgtcccctg aggttgacaga 120
 aaaagaagca gaagctggtg ggaagacggg tgacctagat tcttatgaga ttgaaggcgg 180
 tgagacaaaa gcagagatat tgcaaacct agctgagttc cagttttctt gggtcatgta 240
 caatggtgcc ctaaaaaatg catgcagtga gctt 274

<210> 52757
<211> 197
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-050-Q1-K1-E11

<400> 52757

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cccgtgcttg ccataaagc tgaagaggat ggtgtcncat gcgtagaatt cattgctgga 120
aaagaaggcc atgttgacta tggcacagtt cctgggtgtgg tctatacaca tccagaagtt 180
gcatctgttg gcaagac 197

<210> 52758
<211> 209
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-050-Q1-K1-E5

<400> 52758

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atgaaacggt actgattaag gttgatcgag tctgtactc atcagttgta taccctcaca 120
attatggttt cgttccaagg actctttgtg aagacaatta cccaatggat gtgttagtcc 180
tgattcatga gcctgttggt cctgggttcg 209

<210> 52759
<211> 221
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-050-Q1-K1-E8

<400> 52759

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ttaaaaaaaaa aaaaaaaciaa acccaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaciaa aaaaaaaaaa acccaaaaaa aaaaacacia acatacaact aaaaaactct 180
acctacactt tcaccaaaat aaaaataaca aacaatcatt t 221

<210> 52760
<211> 517
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-050-Q1-K1-F11

<400> 52760

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gatgtntata tataatanna cccaaccaan aaccaannnn nnnaaaanaa aaaatataaa 120
atataattat ccacaataat aataaaataa tataaaattc ctaaaataaa ctaataaata 180
ttattaaata aaataataaa taaacaataa aaataaaaaa aataaaaaaa aaaataataa 240
cattaaata aaaatataaa ataaaacaaa ataaatatat aaattaaata tatatataaa 300
tactaaacta aaaaaatata taataaaaca aattataata tataaaaaata aataaaaaat 360
taatataata aaaattataa aacaaataaa aataaataaa ataaaataaa aataactaatt 420
taatatataa tataataaat ataaaatata atacaataaa aataaataat aaaaaataaa 480
atatacataa aaaaaatata ctaattaatc atttata 517

<210> 52761
<211> 235
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-050-Q1-K1-F4

<400> 52761

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ttaaacacaa cttaaaaaac aactagaaaa tgtataaata taaacctctc catacctcta 120
aacacacacc ttacttcaaa cacataccat aaatatcatc ctctactaa taactcacac 180
tttacttaca ttcaaactct accatttaat ttatcaaaat ttttccaaca taatc 235

<210> 52762
<211> 320
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-050-Q1-K1-F6

<400> 52762

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gggtctgttag gacatgtgga aggggtcatgg gaatgaccat tgggtgcaatg cttgaagaaa 120
tccaaactct ctaccaacaa cacaaacagt cttgttttct ttacttgtcc agtgaagtta 180
tcaagatttt tggatctgat ccatcttgtg cgggctatct tactaacttg atacaaatac 240
ttttcagcca tacagtgcaa cttcttagaa cgattcaaga ttttactgcc agaccagata 300
tagctgatta ttgctatttg 320

<210> 52763

<211> 181

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-050-Q1-K1-F8

<400> 52763

aaaaacaaaa aaacaaacaa aaaaaaatca aatccctacc aacaaacaaa cacactaaaa 60
acacacaaac caaaaaaaaa acaaaacaac ccaaacaac aaccaaacaa acataaaaaa 120
aacaaaaacaa aaaaaaaaaa aaccaacaaa acaaaaaccc aaaaaaaaaa aacacaacaa 180
c 181

<210> 52764

<211> 121

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-050-Q1-K1-G10

<400> 52764

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atctttttta tactcnatca aattttaaaa ttcttttttt ttcacaccaa attntcattt 120
t 121

<210> 52765

<211> 399

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-050-Q1-K1-C5

<400> 52765

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cgggctcgaa ccatggcggg cgccaccgag tcgcgcggca gcgaggacag ggcttcagcc 120
catgcgaacc aggagaagcg gtgggtgctg tctgatttcg aggttgggaa acctcttggg 180
aggggcaagt ttggccatgt ttatcttgcc agagaaaaaa ggagtagtga gattgtggct 240
ttgaaagttc ttttcaagag ccagctcaag caatcacagg ttgagcatca gctgcgacgt 300
gaagtggaga ttcagagtca tcttcgtcat cctaatttc ttcgcctgta tgggtacttc 360
tatgatcaga ccagggttta cctaattctg gaatacgt 399

<210> 52766
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-050-Q1-K1-G11

<400> 52766

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ggaagatacc tgatgggttac agtgaaatgt tatcgggata tcaaccacct aatgaaggtg 120
cacggaattc gcagggtttc tggtctttac ctgatcagat tgccgctgga cgtcctaatt 180
tctggcacac tgtaaactct cattaccaag accagcaagg caatcacaat ctgttccttg 240
gttcatgggc catgatgcct tcaagtactg gctttgggat gaacagacag agctatccaa 300
tgatccagga agtcgggtgg atgtctcaaa gttgtacaaa cactcaagtt gggaatgagt 360
ttatgctcac tacct 375

<210> 52767
<211> 428
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 52767

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acaacatcta cctcaacatg gacgccttcc acggcgacaa ggaccacggc ggcgtccacg 180
acggcaccac cgtcgtcttc tgggagtggt ccaagggcga caaccagcgc tgggaagatcc 240
tgccctgggtg aacgtgaaca gagacgagct agatgaatcc aaggaacctt acctagctgc 300
tgccgcgggc gcctaattcg tctcctnccg ctctagctgt tatctgtctg tgtcttcgcg 360
tctcgggttt cctgaatgga cgaattatat atagcatgca tgtacggcta gcgaccatgt 420
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<210> 52768

<211> 192

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-050-Q1-K1-G7

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<211> 318

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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agttcacatc gtcagctaata gtcatttttg atgtgtgaat ctggaagatg cgtcttctag 180
ttttaatatc tgggagaggg aattcaatct tccgggtctat acggcctggc cgaagcaaag 240

caggatcaag actttcaatg cngcttggtg ctagaataac tttaacatct ccacgcgagt 300
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<210> 52770
 <211> 329
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-H1

<400> 52770

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 tactggtaac tactcatggc gaagtgtagc tggcaccaga atgacccgta tgcttaacgt 180
 ggtctacaat gcgtcaaaca ttgatcttgt gaggacacat acccttgtga tgagtgccat 240
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<210> 52771
 <211> 174
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-H11

<400> 52771

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<210> 52772
 <211> 382
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-H3

<400> 52772

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 gcggcgacgc gtctggcacg atgggcggcg cgtgcggcta cgggaacatg tacagcacgg 240
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 ccgtcacggc caccaacttt tg 382

<210> 52773
 <211> 65
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-H4

<400> 52773
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 tatca 65

<210> 52774
 <211> 371
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-H5

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 ctctcctatc acctgaatcc ctcgagtatt catcgccggc gcagcgcgggt ctcttccttt 180
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 gcgcttgagc gggccaagat gctgggtggc atggaggctc acgaggagtc cgcgttgcca 300
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 cagaggctct a 371

<210> 52775
 <211> 408

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-H6

<400> 52775

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ccatggccaa gacgatacga ttccaaagct aacagatgct gctgcacaga agtaggctag 180
ttcctttttg tacctcaata cttttgatat ggaaaatcat atacagttca gttggtctgc 240
ttaacattcg atttcactcg ctccaaacga aaaatgcgat ccaatggtcg tgcgatttct 300
gtgtaaaaact tgtacacggt tgactgttct aaacaatcca ttttttatta aattttaatc 360
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<210> 52776
 <211> 236
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-H7

<400> 52776

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caagaagctt ggtcctggcg cgcacaattt tggagagcag acagaactca ttcctattga 180
ccatggtctc tgtcttccag aatgcctaga agaccatac ttcgagtgga tccact 236
  
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<210> 52777
 <211> 355
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-H8

<400> 52777

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aaaacaattc ttcaaacat ggataacca tactttattg caatggtgtg acatgagtac 180
  
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atgacatgac atgacatgct aaggcagaaa attatgttgc agcagtggta tatgtgtggt 240
 tgcagcttgg taggtaaaat tttatgtcat gtgtcagccg aatcatgaaa atatggctat 300
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<210> 52778

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-H9

<400> 52778

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 tcgtcatcgt cggcgatggg ggaactggta aaactacatt tgtgaagagg catctcactg 180
 gagagtttga gaagaaatat gaaccaacca ttggtgtgga agttcatacg ctggatttca 240
 ccacttactg tgggtgagagc aagggtctact gttgggatac cgcagggcaa gagaagattg 300
 gtggcctcag ggatggagac tctatacatg ggcactgtgc gatcaccatg tgtgaggtga 360
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<210> 52779

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-050-Q1-K1-A4

<400> 52779

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 atgaatgttc cttctggttc cctaaaggag gtactgggct tgctgagatc tctatatgtc 180
 atggtgaaca tagatgaatc cacatctttt ctaagatacg ggcatttatc acgtgacaat 240
 gtaacccttg tgccgaaaga agtcctgaaa ctgtgcagtg aacttaagcc ccatgcgctt 300
 gctggtggta ggtctttcgg aatacctgat gcctttctta gtccacttgc ttttgactgg 360

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377

<210> 52780
<211> 190
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-050-Q1-K1-B3

<400> 52780

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gactgaaaat tcacgcggct tgtggcagcc gttcaaccgc ctttctgggg aactcccta 180
atgtgacgtc 190

<210> 52781
<211> 61
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-050-Q1-K1-B5

<400> 52781

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a 61

<210> 52782
<211> 109
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-050-Q1-K1-B8

<400> 52782

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<210> 52783
<211> 370
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-G7

<400> 52783

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tctcattccc cgatgcgggt ggcggtggcg attctgaaga cggcgacttc gccggctccc 180
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tgccccacgc gatccctgcg gccggtagcg gggcgggccc ggtcaccttc ggcaacggcg 300
gtgagcgget gccctgttc cagcgccttt ggaccgagga gggcgagatc gtgatccttc 360
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<210> 52784

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-050-Q1-K1-C1

<400> 52784

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cctaaagtga atatcggata gaatatcaca gcattgcaac agaacgaatc tccttttttg 240
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<210> 52785

<211> 173

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-050-Q1-K1-C10

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aaaacaactt ccatctaaaa ttacaccaac aaataaaaaca aactcaacta tca 173

<210> 52786

<211> 154

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-E3

<400> 52786

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cgcgggcggtg ctctctctcc aggccctcct cctc 154

<210> 52787

<211> 169

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-E6

<400> 52787

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caggtgttca agatcttctg ccgcgccaac gagaactact gcctggccg 169

<210> 52788

<211> 283

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-E7

<400> 52788

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gtcaagaacc ctcagaccgt gcatatccat cctagttcag gattagcgga ggtacgtccg 180
 cgggtgggtag tgtaccacga attagttctc acgacgaaag agttttatgcg ccaggtgacg 240
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<210> 52789
 <211> 353
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-E8

<400> 52789

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 gctttacttt gtgcaacaca tattctccat ctaatcaact acaaggaggt tgtactcaaa 240
 gaatggattt atggattact tcttgctcac aagcagcgag acatcatgca aggataggtt 300
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<210> 52790
 <211> 421
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-F1

<400> 52790

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 <212> DNA
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 <223> Clone ID: LIB3079-049-Q1-K1-F10

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 ggctccaagg ggcggggcgat cgctggaagc ttcgtcagcc gcgtcctcgc cggcaaggcc 180
 gtctcgccga ggaaggccgt gcacgcctcg gcgtacgaca agaacc 226

<210> 52792
 <211> 399
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-049-Q1-K1-F11

 <400> 52792

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 ctggtgggct gcaactacgc cggcacgccc tacgagctgc agggctgcat caacgacgtc 180
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<210> 52793
 <211> 441
 <212> DNA
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 <223> Clone ID: LIB3079-049-Q1-K1-F2

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<210> 52794

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-F3

<400> 52794

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 gcatcgtcca tctacctgtg tgggtgcaaaa ttctgaataa aatctggctt ttttccggat 360
 aaaaaaataa tttttt 376

<210> 52795

<211> 334

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-F4

<400> 52795

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 ccctcgagtt gcagaaattg gaccaggaga accgtttaat ttagctattc agtgacgacc 180

tctttggagc agtatttggg tgtgcttact agtatatggt ttctagtcac cattcacgct 240
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<210> 52796
 <211> 270
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-F5

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 ctatcctacg gtaccttgaa tcatatatat attcgagcga ctaactacat gtactgtagc 240
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<210> 52797
 <211> 205
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-F8

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 ggcgctgggc ggcgggcgcg gcccgctgct gggcggggtgg aaccgcatcc ctgacgtgag 180
 cgactcgcac atccaggagc taggc 205

<210> 52798
 <211> 429
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-F9

<400> 52798

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 gaaaatcaag ctgagtttgt ccgcttggtg aacgaaactc ctgaaggtgg tcctggaaga 300
 aacatattag gtcaactggc agctgctatg ccgcaatcgg tgacagttac cccagaggaa 360
 cgagaggcca tccagcggct tgagggaatg ggcttcaacc attagcttgt gctagaagtt 420
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<210> 52799
 <211> 232
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-049-Q1-K1-G10
 <400> 52799

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 gctgcaatac tataaggctg caccaattac taactttaaa gatgggtcaac gtgtttcaaa 180
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<210> 52800
 <211> 426
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-049-Q1-K1-G11
 <400> 52800

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 cacagtgagc tgcttccgag ggcacgcgtg tcattgggta aggtcgcctc tccccgaacc 180
 tcagacaaga ggggtctggca acgggcctgt gactatatag ggctcatgaa tgaaccagac 240
 atctgtttat ctgtactggg accgttcacc gtcccaagaa aatggccccg gattttgaat 300

ttgaattaaa gagggaccaa aattggaact taaggteect tttaaccttt aaaccaacca 360
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tattttt 426

<210> 52801
<211> 139
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-049-Q1-K1-G12
<400> 52801

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<210> 52802
<211> 427
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-049-Q1-K1-E11
<400> 52802

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tgtagctact gatcccgaaa ggtgtcagcc atcgctaatt ggcttctgtcc tcaaatagtg 180
aaggaactac gcagctttct ttgattggct ggctactacc gcaaatttgt ccgtaacttc 240
gaagtcatat caaaactttg actcttctgc tcaagaaaca ttcagtgttt gtgtggacgt 300
cagtacatga tcatgttttt aacgtgctga aacagtcctt gtgcttggcg catgtgttga 360
aattgcccac ctttggacat gcattttcag gtgaaattga cgcagcaaca actggaatgg 420
gtgcaat 427

<210> 52803
<211> 372
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-049-Q1-K1-G3

<400> 52803

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ggtctaccag aggtcctcct ccttcgggga cgatgtcatc actgcctaca ggaccccaat 120
atgcaaggcc aagcgaggag gcttcaagga cacctaccta gaggacctcc tcaactgttg 180
tctcaagggt cccttcctct caagggtcaac cgccagtgtt catctagggt acaggcagta 240
gccgatgtcg tagctgctat aaagggttgg tactatgaca taggtacata gtatctgaat 300
atacatgcta ctttcgctct tgtgctttag tttggctgct gaatcgctgc tcttcgggtt 360
tggtcgggta gc 372

<210> 52804
<211> 223
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-G4

<400> 52804

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aaaaaacaaa aacaaaacga acgaattaaa aaaacaaaaa acacaacacc aacaacaaaa 120
acaaaaaaca ccaaacacac caactactca caacccacc tataccttca tcatcacaa 180
cattaactac accctcatct tcaactcccta ccacttcaac ctc 223

<210> 52805
<211> 292
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-G6

<400> 52805

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cgcgacggca agggatgcgg ctctgctac aagatcaggt gctccaagca cgccgcctgc 120
tccggccgca ccgagaccgt cgtcatcacc gacatgaact acaccccggg cgtcgcgcc 180

taccacttcg acctcagcgg caccgtcttc ggcaggctgg ccaagcccgg ccgcaacgac 240
gacctgcgcc gcgccggcat catcgacatc cagttcgcca gggtagcctg cg 292

<210> 52806
<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-B9

<400> 52806

gacgcgtgcg tgcgacggca gtatccgagc tcgcactcgt tcaactccgtc catcgcatcg 60
catctgtcct cgcattgccct cagcgccacc gcaccgcaat cacacgcgcg ccacccgcga 120
tgacgccggc ggcgggcaatc ttccggtaca gcagccacgt cgtcgtgttc ttggtcgggc 180
tgatgcagcc gagcatgctc cgtgcgtca cggattggcc catcgccgcc gtcatttatg 240
acgagactct ccacgactgc ctgaacgaga tctcgtgcac tctcctacag gccgatgtcc 300
agttcaagat ggtccgcgac atgtttgcc aattaatcg catcgtcaaa cttgagggcg 360
ttgccgcatg caccaacaag cgccg 385

<210> 52807
<211> 458
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-C1

<400> 52807

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atcgctttgc tccaaccact ttaccctgt tcattgagaa ggatttcatt aatcttcttg 180
ttagctctta atcattatct ttgttcaatg ctttttatta ttttgttttt tcttttcttc 240
tgttattatt ttatttttat ttgttttttt tttttaattt tttttttttt ttttttttta 300
tttttttttg gtgttttttt ctttttttat tttttttttt tttttttttt ttttttttta 360
tttttttttt ttttttttta tttttttatt tttttttttt tttttttttt ttttttttta 420
tttctatttt ttattttttt ttttattttt ttattttt 458

<210> 52808
 <211> 433
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-049-Q1-K1-C11

 <400> 52808

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 cgacagcgcc ccaggggttc tactctcgtc gcagcggcag cagtgagggg aagatgtcgt 120
 cgggtgttcag cggcgatgag accgccccct tcttcggctt ccttgggccc gccgccgctc 180
 tcgtttttctc atgcatgggg gcggcgtagc ggacggccaa gagtggcgtc ggcgtggcgt 240
 ccatgggtgt catgcgcccc gagctcgta tgaagtcctat cgtgcccgtg gtcatggcgtg 300
 gtgtgctcgg tatctacggc ctcatcatcg ccgtcatcat cagcactggg atcaacccca 360
 aggccaagcc atactacctc ttgacggct atgccacct gtcgtccggc cttgcctgtg 420
 gtcttgctgg gct 433

<210> 52809
 <211> 253
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-049-Q1-K1-C12

 <400> 52809

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 gagaactcgg tgctggaagc tgtgctgcaa ggggtccgca tgatctgcta ccctgtctcc 120
 gcagaccatt tcgtcaactg cgcctacgtt gttaacttgt gttaaagcat gagtggacct 180
 gcggatcaga tgacagtga ctgcgacgcg ccgctcttaa tgcggcatgc gctgctacaa 240
 gtggaggact ttt 253

<210> 52810
 <211> 457
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-049-Q1-K1-C2

<400> 52810

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ctatgttgtg gatcatggga taagccaaga gttcatggat gaagtttttg cccagagcaa 120
gaagttcttt gaccttcctc atagtgagaa aatgaagctt ctccgagacg agaagaatag 180
agggtacaca cccatgctag atgaaattct tgatcctgaa aatcaagttt atggtgacta 240
ctattgttga tattatattg gagttgatgt accttgctaa ttattcataa tcatatcttc 300
tatttttatg gtctcatttc attgctcttt tatataagtt tctactctaa tttgtttgta 360
atattattgtt ctttttttta tggatgggtt ttttttattt tttatatattt attttttata 420
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<210> 52811

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-C3

<400> 52811

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tgctggtctt gcattctacc ccattgatac tgtccgcaga aggatgatga tgacttctgg 120
tgaggctgtc aagtacaaga gctcattgga cgcattccag cagatcctta agaaggaagg 180
ccccaagtcc ctgttcaagg gtgctgggtc taacattctt cgtgccattg ctggcgctgg 240
tgtgctttct ggctacgacc agctccagat cctcttcttc ggaaagaagt acggctccgg 300
cggtgcttaa atggagaaaa atgatgacga acaagagcag ttcgctcccg gtccagccca 360
atcaggatct ggtcaagttt ttgctctt 389

<210> 52812

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-C8

<400> 52812

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gtgcctgctg atgacttgac agatcctgct cctgctacta cctttgccca tcttgatgct 120
 acaactgtgt tgtcacggca gatctctgag cttgggtatct atcctgctgt cgatccactg 180
 gattccacat caagaatgct ttctccccac gtgctgggtg aggatcatta caatactgct 240
 cgtgggtgttc agaaggttct tcagaactac taatatcttc agggatttat tgctatctgg 300
 gtattgattt tcttagattga gtttgactag tgcctctttt ttctttcttt ttagtttatc 360
 ttttttttat cttttttttt atttttttta atttttttat tttttttttt ttttat 416

<210> 52813
 <211> 369
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-C9

<400> 52813
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 tatctccctg aatcaccatt tgccggctac ttagagttcc aaaataacca aatcatactt 120
 acagattctc atcataatac aattccttac ctacaaatct aactataca actacctacc 180
 actactttca taacaccttc ataaactaca ccgaaaacct atactcaaaa atcatcctat 240
 acacacacac acatatgtac ctctaattaa acttcaacaa cttatccacg tatcaaacaa 300
 tgccgaaatc cattaacatc attaacccca atcatctcta ccatcatatc atcaacttct 360
 actaatccc 369

<210> 52814
 <211> 109
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-D10

<400> 52814
 gttggtgttg gtgctcggag agtgaggtct ttgtttcaag ctgcaaagaa gaaggcgcca 60
 gtcattttct tcattgatga aatagatgct atgggttcaa ctagaaaac 109

<210> 52815
 <211> 369
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-049-Q1-K1-D12

<400> 52815

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gcctgcatga gagaagaata aggtctgagc atggtcctgc ttgaaatfff ggccgctcaa 120
ttctgcagct agcagaaaag cactgcttct ttctaaggca tgggagtgcc gtatgaagct 180
tacaatagaa tgaagcagcc tcgcccgcga ttctgttacc tagtactaat tgcgttgtgt 240
cacgtgatag cttatgtacc tgacatattc ttttattcta attatactca ttcacttacc 300
tttcgagttt cgactgtaca tattatccac cngtgggaat ggaaggactg agttaacatg 360
tgatacgaa 369

<210> 52816

<211> 329

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-D2

<400> 52816

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caaaaaacaa caacaaaaaa aaaaaaaaaa aaaaataaaa caacacaaaa acaacacaaa 120
caaaaaaaca ataaaaaaaa tcaaaaaaaaa aaaaaaaaaac acaataaaaa ataaaaaaaa 180
aacaaaaacaa aaaaaaaaaa aaaaaaaaca aataaaaata actacaaaaa aaaaaaaaaa 240
acaacaaaaa aaaaaaaaaa taaaaataaa aaaaaatata taaaaaaaaa aacaaaaacaa 300
aaaaataaaa aataaaacaa aacaaaaat 329

<210> 52817

<211> 140

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-D6

<400> 52817

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aaaaaaaaga aaacaccacc acccccacaa aaacaaaaaa caaaaaaaca cataacaaaa 120
 aaacaaaaac aaacaacaaa 140

<210> 52818
 <211> 383
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-049-Q1-K1-D7

<400> 52818

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 ttatagttgg ttagcctatt gtagaagggtg gttgaacttg tactttgaga ccaaataatat 120
 attgcatact tgatattata ctattatttg agcttgtctt attgtactct tatctgttct 180
 tatgaagggt agaggaatgt gtttgggggtg agtaattttt ttgtgttggt tcctctatcc 240
 atggccatgg aggagcaaag gaggccacct agctcgaaga tagcgccagt gtccatgaag 300
 gcgtcctctg caaatgcgac gcttcaaggc atgaagaaca gaagccattt tcgaagggtg 360
 aggaaaactg cgctgcaaca aga 383

<210> 52819
 <211> 376
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-D8

<400> 52819

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 taactacgaa gatgtcacia gagatggcca ggacaatctt cacgatgaca gaaatggagg 120
 aagtgttctt gctgctgtat caagggtgcc ctctccttca gttcctgcaa caactgttcc 180
 tgcagtacag gtgaatgggg gtcattgacag cactgttgaa gatgtacctg caccaccact 240
 gtcattgcca ggcctaattg atttgatgag ttgatccac gtgaatctgt ccagattgt 300
 tcccctcttg taaaccctgc attaatcctt aatagcttgg agaaggattt gtttggatca 360
 gatcctatta gtttcg 376

<210> 52820
 <211> 198
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-049-Q1-K1-D9

<400> 52820

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 gangggacct ccaagcagca ctccggcgag atcgaggctt ccgccgctac cccatacgag 120
 ctgcagegcc gctcgtcgc tgccgcctcc gggccgact ctgcctactg cgtccagtcg 180
 tcctatctca tggtcacc 198

<210> 52821
 <211> 452
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-049-Q1-K1-B8

<400> 52821

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 accatctcgc cgccgccaca ccacaatcca caaccgctcg aagcgaagca agcaatggcc 120
 ggagtcggat cgaaggccct cgccgttgcc gccgttctgg cggccgtctc cttctcggtg 180
 gccgccgcgg ccgaggcgcc cgcgcccagc cccgtctccg tcgtcgtcgc gtgggttttt 240
 gttttttttt tttttttttt gttttttttt tcttggtttt tttttctttt tttctttctt 300
 ggggtggggtg gtttttttct tttttctttt ctcttttttg tttttttttt gttttttttt 360
 tttttttttt tttttttttt tctttttttt ctctttttct tttttttggt tttctttttt 420
 ttttttggtt tttttttctt tttttttttt tt 452

<210> 52822
 <211> 155
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-048-Q1-K1-H7

<400> 52822

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agtaataact aaagtaatgg ccgagttcac gtaacgtgct cgccgaatgt acgatcgggt 120
gtaccggccg gacgtatgta caagcccagt gcaat 155

<210> 52823

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-048-Q1-K1-H9

<400> 52823

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aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaattccc ctttttttcc aactttttta 180
aaaataataa taaaaaaccc ttaaacccaa taaaaaaaaa attatcccc tctccaattt 240
tttttttttc caaaaaaaaaa aatcaaactc cctttccttc tacttttttc ttttcctcct 300
tttttatctt aaaataaaat cttttttatc ccccctaaag aactcttaaa atattttttt 360
tttttctct 369

<210> 52824

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-A1

<400> 52824

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atgtcgccctc tgccagctgc tgtgatctga agaggcggtt agctcatcat atgccttttag 120
tcttttgaga ggtcttttagg gttgaaaggt acttcgaaaa ccgaaccagc gtctacaggc 180
ctaagaggga tttccattga aactcgtcga tgatactaca gttttctttc cccatctgtg 240
ccggttgtgt tgtactacca ctaccagtga cagtgaagtga cttctaagct attcattttt 300
ttaactggag aagttgatat catgataatt aaaaaaatt ggggtgtgtat tgaactatta 360

<210> 52825
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-A11

<400> 52825

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agaaaaaatt aaataaaatt acaccaataa cctaattata tttaccaaaa aattttcaat 120
actagcaa at caatataatc cactaattct ttggactata ccacaaattt ctcacacatg 180
ctatatatttc acgaccacaa aatactctat ctaatccggc tctatataac aattcacact 240
aatcatcata tcaccaatgt cagtgtcat actgttcac tggttggcac ttctctgtca 300
aatccttata tttctttcgc atccactcta aatgggtctaa ctgtaccact gcatgtcctt 360
tcaa atcatg aactgtcttt atttatcaaa tctgtaatt 399

<210> 52826
<211> 274
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-A2

<400> 52826

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gcactgctgg ccaggaaagg tttcagagtc tcggcggttg attctaccgg tgagcagatt 120
gctgtgtcct agtctatgat gttcattcta tgaaatcatt tgacaacctg aataactggc 180
gagaagagtc tctaattcac gctagcccat cagatcctga caatttacct gttgttctcg 240
tgggtaacaa agttcatgta gatcgtggca acag 274

<210> 52827
<211> 362
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-A4

<400> 52827

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gagctcattc cagaattcta atgtgaggaa ggtgtacgtt tgatcatttg ttcattccatt 120
gtatatgaat catgcactaa attaatcaaa gttttaacat atatattcaa aggctagaaa 180
tctgaacctt agtatgagca cccgataggg catgttgctg taggggtgtgt ttgactatgg 240
tacatctgga tgaacggatg tatgctaagt tgaattgtat ttttaataaaa ggtgtttgat 300
gcggatgtat gaatggatgt aaaaaaatac agagattatt tgggtgtatg agttaatgca 360
at 362

<210> 52828

<211> 230

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-A5

<400> 52828

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gaaaaggagg aggaggatgg cgaggaattc gttcaagttg gagcaccctt tcgaaaggag 120
gcaagctgaa gctaaccgca tcaaggagaa ataccctgac agaatccctg tcattgttga 180
gaaggccgag aggagtgaca tcccagacat tgacaagaaa aagtaccttg 230

<210> 52829

<211> 311

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-A6

<400> 52829

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cgatgtacta gtgcatcacg tgatgatcag gtgacagttc gagatggata ttacacgaat 120
gaagcacaag aaggatcatg gcatgctcag aatgagccag gccttctgta tactgaagga 180
attcacaat tcatttgctg caaaaacatt tgcgacgaac agaccgttcc agcagaacac 240
agtagacacg atgtatgtca gggaaaacta gaagaaatta aacgagggaa agaacatatc 300

aaaatgcccc a

311

<210> 52830

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-A9

<400> 52830

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gttctccaat tgacctgaaa gggaaggctt atgagttgct gcgagagaag gcttcaagct 120
tcctccttga cgacttctac aggactccag gaggcattca gttcgaagg cctgggttcag 180
atgcaaagcc catcacgctg accattgaga accaggacta catgggtgac attgagatac 240
tgaaagagta ccttggaag gttaggacca tgggtgaagcc aggggtgctcc cgggagatcc 300
tgaaggcggc gatcagttcc atgggtgcgg tgactgatgt gctgactgtg atgtcccacc 360
ccctcaacgc cgagctgccc ctctaccatt ttaagtgagc gagggcatca gtctgggttag 420
tattcctaga agtgttttga aa 442

<210> 52831

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-B1

<400> 52831

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aggaatcatg agtcctgttc tacttctcga catgagcaaa catggagaca atgcaaaagg 120
gctaactctt gcaacaacgt cctttgatgg ttatttatat ttgattgagg gatcgagtgg 180
ctgtgcagat gttgttgaca ttggagagac ctcgtacact atggtttttg ctgataacgt 240
ggatggtgga gatgaccttg atcttattgt taccactatg aatggcaacg tcttctgctt 300
ctccactcaa tcaccacacc atccgcttaa ggaatggagg tcatcaaacc aaggaaggaa 360
taatgctgca tatcagtaca ac 382

<210> 52832

<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-B11

<400> 52832

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tgcttccagt cagagggtcca aaatatcaaa gggatgcaga aagatgtggt tgcattgatg 120
agtaccttgc ctggaaattg gcaggatata caaacatagt tgtactttac ttgatctcga 180
tgacattgga ctgcaaatat atgcacaaca attgcctcat gcacacacac ataatggggc 240
cgcgagttgt agctcaacca tcgtctctgg tttctttcta ggtggagatg gttaaaattg 300
ctgggtcactt ataattacca gcatcttata cgtcattgct gttcatcgcc aacttattca 360
agtctgaaag tagaactctg aggagatggc tgagaaagag gatattctaa tgcagagata 420
tgagatggga aag 433

<210> 52833
<211> 184
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-B2

<400> 52833

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acatatataa cacttggcaa tttcaagatt tctatactac tcctctacat tatcaaacat 120
ttatacaatg caaaaatact aactcttgca acaactttct tttaatctta tttatatatt 180
attt 184

<210> 52834
<211> 159
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-B4

<400> 52834

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tctctcaciaa tccactctaa ctcacactga cctacactac acattcatat catgcttaca 120
ctttccccat ccccatcctc ctcacatcca acccatctc 159

<210> 52835
<211> 344
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-049-Q1-K1-B6

<400> 52835
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ttgtctccca ggtcatctca tccctgacgg cttccctgag gttcgatggt gctctgaacg 120
ttgatgtgaa cgagttccag accaacctgg tggcctaccc gaggatccac ttcattgcttt 180
cgtcctacgc tccagtcatt tctgctgaga aggcctacca cgagcagctg tccgtggctg 240
aaatcaccaa cagcgccctc gagccatcct ccatgatggc caagtgcgac ccccgccatg 300
gcaagtacat ggcattgctgc ctcatgtacc gtggtgatgt gggt 344

<210> 52836
<211> 56
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-048-Q1-K1-E2

<400> 52836
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<210> 52837
<211> 51
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-048-Q1-K1-E3

<400> 52837
ccttattccc ggctctaccc actcttcctg gagtctttct cctccctctc c 51

<210> 52838
<211> 320

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-048-Q1-K1-E5

 <400> 52838

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 gccaggcaat gtataaccag cctggtgccca gttctgctgg gcctactcct ggtgctgagg 120
 ccggacctac gcctggtacc ggaccaacgc agaattgattg ggatgtcatt gacgcagact 180
 tcacagatag caattggggg gtgattgatg catggccatg tgttgagcaa ggttggcggt 240
 aaggagtga ccaattgttc cttttttgtg ttgggattgt tactataggc tatctagcat 300
 ggagttgttt agatagtttt 320

<210> 52839
 <211> 122
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-048-Q1-K1-E8

 <400> 52839

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 cttgacttcg tcggggcagc ataagctgta agagcccata tcccctgggtg gcggctcctc 120
 tt 122

<210> 52840
 <211> 394
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-048-Q1-K1-E9

 <400> 52840

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 ggaaaacctt cctgtcagcc ttcctcacct gtcacagcag atttgttcaa tgcggcgaaa 120
 agtttgaggt tcggatcctt ggggccattc tcattgggac ttccctcaac ctgcacacag 180
 tttgaggaag aattcccagc gcttcctact agaaagagag ccgaaggccc catttcagtg 240
 gcgcccagcg ctaaggctgt tgaaacaaaa agcaggctcag aagagagtga agagatgttc 300

cgactgagaa atgaatctga tttccctccc ctccaagctg gctgccgctg agactgacag 360
gacgtcgaga taatccatgc taatcgtaat ggta 394

<210> 52841
<211> 316
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-048-Q1-K1-F11

<400> 52841

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gagtcaggcc acctggacca ccttctccat cctcagtttg agaaccctgc ggcgtacaag 120
gatcaagtca ttgccactgg tctgccagcc tcacctgggg ctgctgtggg ccaggttgtg 180
ttcactgctg aggatgctga agcatggcat tcccaaggga aagctgctat tctggtaagg 240
gcgagagacca gcccttaaga cgttgggtggc atgcactctg ctttggggat tcttacagag 300
aggggtggca tgactt 316

<210> 52842
<211> 321
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-048-Q1-K1-F12

<400> 52842

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attgaaactt cagaatctca nacgcgttcc ctaggttttc cctggagaaa caactaaaca 120
aatggcatca tcaagcttca tgggaaagag aaactgccgt agaatacctc ccagaggaga 180
angaaaggtg aaaaggaaaa aagtaaagcc tgtaaagctt tgtcactgat aaattaaana 240
ggagctgaga aggaaacaaa aagagaagaa gcaagaaagg cacattaaag aaaaaagaga 300
gaacccggaa gcaaaaaaga g 321

<210> 52843
<211> 156
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-048-Q1-K1-F2

<400> 52843

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tttattttca gggtgacagc aggtctagca tctttgatgc gaaggctggc attgccttga 120
acggcaactt tgtgaagctt gtgtcctggt acgaca 156

<210> 52844

<211> 139

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-048-Q1-K1-F7

<400> 52844

tccgcgaatt tgctattggc tcgttctgcc cacgaccccg gacgctatac tttcagagtt 60
cagactcaca atcgccggga gccaccgcaa ttcccgccac acgtctgccg tcgacgagtt 120
ggagtactgc gagttgtgc 139

<210> 52845

<211> 154

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-048-Q1-K1-F8

<400> 52845

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gctcgggcta tacctgcgct gcgatgtcac cgtcggcctc tgggtggacg ccaccgcggg 120
cgacgacgga gccggggacg tgccactgct cgag 154

<210> 52846

<211> 280

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-048-Q1-K1-F9

<400> 52846

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 tacattatta catcctccat cctacaacat aattattcta taatatcacc aaaaaaaaaat 120
 aaactacccg ccattttaca acaacttcac tactaaaaaa accccatcac caaacaaaat 180
 aatcttctag caaatcatcc ttttttcacc tgctttcata ataaagaaga cccaccaat 240
 catcattctt aacaacattt catcactaat aataaataat 280

<210> 52847
 <211> 378
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-048-Q1-K1-G1

<400> 52847

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 gagtgtggga aatcaaagca tgctggtgtg gaaaacctgg aagacaacgg tgttcacctg 120
 tctcctgatg aggatcaaaa tgctagtcca aaacaaacta ctgtaaagaa attggaagtg 180
 tccccttcag tctccacacc aatttcttgg gttaaaaaat gtgctcaggt gatattcaaa 240
 cgctctccag agaagagtgc tgatcccaac aatgatatac ctccaaagtt gggaaatgtc 300
 aatgactgta cctccttagc tactgcctat tcagatggat tgtttgcttg tcacctggaa 360
 aatggtgctg agaaagta 378

<210> 52848
 <211> 265
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-048-Q1-K1-G10

<400> 52848

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 ggtcctctgt gcctcaaaan gcccgtagcg cctttatcct ggtgctatct cagttatggc 120
 aagtagtttc atggcaagtt gaacatctta gcagaaaagt gccatgaata gtatgtagta 180
 tgtacgctta tgtttgtaac aatataaaaa tatatatata tcattagctg caaaaggagg 240
 tcgttttctt agaccttatt atttt 265

<210> 52849
<211> 238
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-048-Q1-K1-G12

<400> 52849

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cttccttttt aaaaaaacac aaacctcccc cccaaccncc ctctataaac tatccaacct 120
aactcaccca ttcatacaac tacaaaatca cctatacaca aaccaaaaac aaaccattt 180
accaattact accaacatct taccaataaa aacccttacc taactcacct tattctcc 238

<210> 52850
<211> 362
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-048-Q1-K1-G3

<400> 52850

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gagcaaggac gtgggcaagg gcttcgctg catccgcatg gtcaacaaca cccgcctcaa 120
cttcgacgcc ttccacggcg acaaggacca cggcggcggtg cagcactgca ccgtcgctcg 180
gctctgggag tgggtgcaagg gcgagaacca gagctggaag atcctgccgt ggggtcccga 240
ggccaactcc tccgcggccc acgcgggagg cccgcacgcc gtgcgcgtct tctgcaaagc 300
cggctgcgag gactacagcc tcacggtgcg catcggcacg gcgtgcctgg cgcccatcaa 360
cc 362

<210> 52851
<211> 52
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-048-Q1-K1-G6

<400> 52851

aatagaatgg cagaaaacct aaacgttagg atggcgaaaa gagaaaagaa cg 52

<210> 52852
<211> 121
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-048-Q1-K1-E12

<400> 52852

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cactctagcc agcaccaacc cccaaccgc cattgcnaac accttcctgg tgcccataaa 120
c 121

<210> 52853
<211> 141
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-048-Q1-K1-G7

<400> 52853

gctcgcgcct ttcagccttg tctaggagga cgcgtcgatg ctgaggagga agagctagta 60
cattggcaag ggcttcact tcttcctcat ggtcaacaac gcccgcccta acttcgacgc 120
cttcacggc gacaaggacc a 141

<210> 52854
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-048-Q1-K1-G9

<400> 52854

cacttggaat atgcacaagg gttggcttta ataactgtca tgcttggtac cagttgggta 60
atgtcactcg ttattgttct ttgctggaac aagagtatct tccttgccct tggtttccta 120
cttttctttg gcacgatcga agtaatctac ttctcagctt cccttggtcaa gtttcatgaa 180
ggtgcttggg ttcctattag tctctccttc atatttatgg tgatcatgag tgtctggcac 240
tatggcaca taaagaagta cgagttcgat gtgcaaaaca aggtttcagt aaactggctc 300

ttaaaccttg gcccttcact gggcattgta cgagttcgag gcattggact aatacatata 360
gaactaatgt ctggaatccc aactatcttc tcccactttg 400

<210> 52855
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-048-Q1-K1-H10

<400> 52855

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ccgcgcgcgg tccccgtccg gcgtgatcca cctcaccgac acctccgtca cccgtttcct 120
ctccgcccc tccgcgcgcc gccctactc cgtgctcgta ttcttcgacg ccgcttcgct 180
ccactcaaag cctgacctcc acctgcccc gctccgcacc gagttcgcgc tcctctccgc 240
ctccttcctc gtcacaacc ccgattccgg cgacctcttc ttccgccaca tcgagttcgc 300
cgagtcgcag cactcctttc accagtttgg tgtcaactcg ctgccccata tccgcctcat 360
ccgttccgat cac 373

<210> 52856
<211> 106
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-048-Q1-K1-H11

<400> 52856

aaaaaaaa agaaaaaaaa aataaaataa acaaaaaaaaa aaaaaaaaaa ctggaaaggt 60
aggaatacac aaataaaaaa accacaccaa acaccaaacc aacacc 106

<210> 52857
<211> 309
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-048-Q1-K1-H3

<400> 52857

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gggtctaccc tttacttgct gatctttatc atatatttgc tgatattcca tgcattggta 120
 gggctatggg ttctgctcag aagttgctta cacaagttca catgggggag ccaatcagca 180
 gtgatatgtt gtctgatgtg tatgtattta gaattgcaat agaagccctc atgatgggct 240
 taaacagtgc agccaggtcc caaattgata ccggagatta acatgggtca aatgatctgg 300
 gatttttaa 309

<210> 52858
 <211> 159
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-048-Q1-K1-H4

<400> 52858

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 cgggtacacc tttgatgttc acatcctttc caatgctagc tgcaccacaa actgtcttgc 120
 tccccttgct aaggtcattc atgacaactt caccattgt 159

<210> 52859
 <211> 390
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-048-Q1-K1-A9

<400> 52859

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 acaaatttac atgctgggtc tgttcaaccc gtgaatctcc taaggtcaca gcgtttttat 120
 ttcattctat attatatttc agtctggact aatgttgaga tctccatag tatctacgtc 180
 taagcatttt tcatttgtat ttaccatgtt ggtcaattgg gatatttgtt tcttgtatgt 240
 tagcatgttt gaaccatagc aattggtgga cgtgtgtaga gaagattgca aaactgcagt 300
 atgatggatt ccaactattca tcaaccgaga tcatggcgcg cttcaatcgt ggctacgctg 360
 aatgggaatt gatccgttat ggctcgtggc 390

<210> 52860
 <211> 367

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-048-Q1-K1-B10
 <400> 52860

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 ctagctgcga ctgctaccgc ttccccacgc cagcatagca tgcaatatgc atatatatgg 120
 tcgacgacga cgatggcaca cggccggcag caccaccgcc cgccgccgcg ccggtccacg 180
 ctatgcatgc atgcagctac gtttcattta ttaccagggt ctntgatatt cttatatata 240
 tgttgacgac tatacatatt agctgatctc gtttgtcatg ttattatgtc gtgctcattt 300
 aatcagagag tgagagagag gatgaataat tcaatctgct cgacagacat atatcgctgt 360
 cattgga 367

<210> 52861
 <211> 446
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-048-Q1-K1-B11
 <400> 52861

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 tgtaacatat ccagcttatg aataaattat gtggatcaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaaaaaa tatattaata atatacattt ttataatata aaaaataaat tttttaattt 240
 atatttaata ttttattttt tattatttta tttatattaa tattttttata tcttttaggg 300
 ggtggggtag ttatttatta ttaattatat atttggtggt atcccttcaa atcataaaaa 360
 acacaaaaaa ttacatctat ttctttttat ttttaataaa ttttataatt atatccttaa 420
 aattaatttt ctctatatct atttta 446

<210> 52862
 <211> 438
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-048-Q1-K1-B9

<400> 52862

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taaaataaaa aaaaaaaaaa acccaaccca aaaaaccccc ccaacaaaaa aaaacccaac 120
aaaccaaccc caccaaacca caaaaaaac ccacaaaaaa acccccccaa aaacaaaacc 180
ccaccccccc ataccccccc cccaaccccc aaaaaacccc cccctcccc caccaaaacc 240
ccctaccccc catcccccca cccccacct cctaaaaaac cccaaaaact cccccccatt 300
ccccctgcc caccacaatc ccacccccaa aaatccccac aaaaccccc cccataccct 360
cccctaaaac ccccccccc cctcctctcc cccccccca cctaacccca ataccccccc 420
cccaaccccc caaccccc 438

<210> 52863

<211> 388

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-048-Q1-K1-C10

<400> 52863

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gccgcacgac aacaacatca tgctctggaa cgccgtcata ttccggcccg atgatacgcc 120
gtgggacggg ggcacgttca agcttacctt gcagtttaca gaagattacc caaacaagcc 180
accaactgtt cgatttgtct ctaggatgtt tcatccaaat atatatgctg atggaagcat 240
ctgtttggat atcctacaga accagtgagg tcctatatat gatgttgctg caattttaac 300
ttctatccag tcctgtgtgt gtgatccaaa cccaaactcc cctgcanact cagaagcagc 360
aagactgttc agcgagaaca agcgggag 388

<210> 52864

<211> 235

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-048-Q1-K1-C11

<400> 52864

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agctgccggc ctatgacaac aagaagatcg aggacgccat cnacgcggcc atcagctggc 120
tggacaccaa ccagctcgcc gaggcggacg agttcgagga caagatgaac gagctggaga 180
gcctattcaa ccccatcatc tccaagatct accatggcac ttatgaacac atggt 235

<210> 52865

<211> 438

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-048-Q1-K1-C12

<400> 52865

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aaacctccca gggcaggttg tttaatataa cttaccncaa agaagtnttt tattttttca 120
tattcttctc atcttttaaat caatcttttt tttttttatt ctttcttttt attttatttt 180
ttattttatt tttttatttt cattatttct ttctttatat ttctttctat attttcttta 240
tttttatttt attatttttt ttattttatt taattttttt atttatttta atctaatt 300
tcatttctat tcttttaatt ttttcattat aattatcttt taattttttt tttttatttc 360
taattttttt ttatttttaaat ttttcttttt attttaaata ttaatactat tatttatatt 420
tattttatta totattta 438

<210> 52866

<211> 144

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-048-Q1-K1-C2

<400> 52866

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acatcagggg cactttgcat ctggggctgn ttcttcgacc aacttctcaa actgagttga 120
tcgtttactc tgatgtcgat tggg 144

<210> 52867
 <211> 286
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-048-Q1-K1-C3

 <400> 52867

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 ggctaaagca gagaaaaggc ttgatgctg agttatcaag ttgctgaaga cttggctaga 120
 gcgtttactg agcgtacgat cctccaaata tttttggagg atgagattaa tggtccttct 180
 ggtttcctaa aggaggtact tggcttgctg agatctctat atgtcatggt gaacatatatt 240
 gaatccacat cttttctaag atacgggcat ttatcacgtg acaatg 286

<210> 52868
 <211> 378
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-048-Q1-K1-C9

 <400> 52868

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 acaccgatgc cgcgagagc ccgcccgcga cgacggagaa ggcgaagggc aggaggccgc 120
 cgccggctcg tggccatggt ggctcagcag ctccccactt catgtcctcc acggtgtgca 180
 gccggcagag acggtgcgcg ggaggctacc attctgtcgg taacggtaag ccgaggctga 240
 cggcgggtgc ggtgaacaag taccgccgcg cggctgctga nctttatggg agccagaacg 300
 cggctgccag ggctagcagg tcggcgtcag tggcactcct cgccgggtgtg cacaagttga 360
 gtgtgcttgc gtgtcaac 378

<210> 52869
 <211> 247
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-048-Q1-K1-D10

<400> 52869

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tttttttttt tttctttttt tttttctttt tttttttttt tttttttttt tttttttttt 180

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tttttttt 247

<210> 52870

<211> 63

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-048-Q1-K1-D12

<400> 52870

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ata 63

<210> 52871

<211> 291

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-048-Q1-K1-D3

<400> 52871

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ggtattngtt cgagacattg aactttttct ctattgtgag tcatgcttgc ttccattcag 120

catacagtgc catgtcgggt atgttccttc aggtggaaga gttggttggt taagcaagct 180

gtttagagta tctgatgtct gttctaagag attgcaaaac ccttaaagac tttctattga 240

aatctgtggt gcactgcatg cttgcattca acctgcttgt gtggctgttg c 291

<210> 52872

<211> 220

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-048-Q1-K1-D6

<400> 52872

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accgcccctg acgtggtgac tgcgtcctgc tccgctctcc gtgcgccacc ctgaagcggt 120
gagggcgagga ccttcaagca accgccttcc tggttcggct gctaccttga ggcctttctt 180
tccaccggtt caacagattc tgatccgaac ggccaaaggc 220

<210> 52873

<211> 266

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-048-Q1-K1-D9

<400> 52873

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cgctccacta caagggtccc acctccacc gcgtcatccc cgagttcatg tgccaaggcg 120
gcgacttcac ccgcggcaac ggcaccggcg gcgagtccat ctacggcgag aagttccccg 180
acgagaagtt cgtgcgcaag cacaccgccc ccggtgtgct ctccatggcc aacgccgggc 240
ccaacaccaa cggtcccag ttcttc 266

<210> 52874

<211> 299

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-048-Q1-K1-E1

<400> 52874

caagcttctt ctcatgggg atagcgggtg tggcaagagt tgcttcctgt tgcggtgctg 60
tgatggttcc ttactacaa gctttattac cacaattggt attgacttta agatacggac 120
aatagaattg gatggcaagc gtataaagct acagatttgg gatacagcg gccaagaacg 180
ctatcgctact attaccactg cgtactaccg tggagctatg ggtatcttgc tggttaatga 240
tgtcaccgat gaatcttctt tcaacaacat tcgaaactgg attcgggaaca ttgagcaac 299

<210> 52875

<211> 275

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-048-Q1-K1-E10

<400> 52875

aaaaataaaa aaaaacaatt caacaaaaaa acaacaaaac aaaaacacaa taccaaaaaa 60
 caaataacaa aaataaacca aaaaacaaaa aaaataaaaa aaaacaataa acaaaaaaaaa 120
 atacaaacaa acaaacacaa aaaaaaaaaa ccaaaacaaa aaacaaaaaa aaaaaaaatc 180
 cacacacaaa aacacacaaa aaaacaacac acacaaacaa aaaaaattca aaaaaaaaca 240
 aaaaaaataa aacaaacaaa aacaacaaca tacac 275

<210> 52876
 <211> 158
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-048-Q1-K1-E11

<400> 52876

caagaacccc caccatcccc actcgctgc agatcgattc gcgaaagaga cgggcgcgtt 60
 ctcatcttac cgttcccnna cccccctct cctcgctgac tcggctcccc tcctccgccg 120
 tcgcctgaag ctaagcaagt tgtgaccaca tattcatt 158

<210> 52877
 <211> 283
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-047-Q1-K1-F11

<400> 52877

cgacaacacc aagtactacg agatcctcgg tgtgccaag tcggcgtccc aagaccgcct 60
 cgttaaggcc taccgcaagg canctatcaa gaaccacccc gacaagggcg gtgaccccg 120
 gaagttcaag gagctcgac aagcctatga ggttttgagt gatccataga aacgtgagat 180
 ttatgatcag tatggtgaaa attcccttaa ggaaggaatg gttgttggtta atttctttcc 240
 taattccttt ttcatcaaca tttctttctt cataattatt tat 283

<210> 52878
<211> 70
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-047-Q1-K1-F12

<400> 52878

ggttcggaac ccgctcgggc cagcgtccgg gctacagacg cgccaggcgt ccttcagtag 60

ncgccggccc 70

<210> 52879
<211> 474
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-047-Q1-K1-F4

<400> 52879

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ccgaaggcat tatctcctaa cttgaaagcc ataacaaact atcttcagtt tgcaattgag 180

tgatgtttcc agaggttatc tggcacatga cagtattgct cttttttttt cttctatggg 240

tgtacttgag ttctgttttc gtatatgcac tcttctgttt actttctttt atgctattca 300

tttattttta atgttttttt ctttttttct tttttgtttt tttctttaat ttttttattt 360

ttattttttt tttattttct tttttttatt tttttatttt tttttttttt tttttctttc 420

tttttttttt tttttttatt ttttttattt ttattttttt ttttttttta tttt 474

<210> 52880
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-047-Q1-K1-F5

<400> 52880

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cttaccatca acgccttcgg ctgcggcgtg gaggcggcct acatagtcct ctacctggcg 120
 tacgcgccgc ggccggcgcg cctgcggaact ctggcctact tcttcctgct ggacgtggcg 180
 gccttttcgc ttcgtcgttt tcttttctct tttttttctc cttttgcttt tcttcgtttt 240
 gttcttttggc tttttttttt tgtttttttc ttgttctttt ttcttttttt tttttttttt 300
 tttttttttc tgtttttttt ttcttttttt cttttttttc ttttcttttt tttctttttc 360
 tttttttttc tttttttttt ttcttttttt ttcttttttt ttttcctttt ttttttgttt 420
 cttttttt 428

<210> 52881
 <211> 440
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-047-Q1-K1-F7

<400> 52881

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 ccgcctgcat atgaagaagt caatggtata ttcatgagga atacggtcgc atagtgggtc 180
 gagaccgtgg agtatttctt ggcttatgca atttaatcat atcgagcata gagcgacact 240
 gatctcaacc tttcagcttg tgactacata gttgtttcta aagggttctt acaattgatg 300
 gtccgattgt taattcattt ttagtgcttt ctttttcttt tacttcttca ttttttattc 360
 tttttctttt ttttctttgt tttttttttc tattttttta ttttttctt tttttttttt 420
 attttttttt ttgttttttt 440

<210> 52882
 <211> 127
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-047-Q1-K1-F8

<400> 52882

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 aagaaaaaga aaaaattaaa catataaaaa aacccaaccc acaaaaacaa aaaaaaacia 120

caacaaa

127

<210> 52883

<211> 76

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-047-Q1-K1-G1

<400> 52883

cattcccaac tccaccact cctcactaca tactatataa actaccacca aaattttcta 60

ttaaatcttt atcaac 76

<210> 52884

<211> 239

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-047-Q1-K1-G10

<400> 52884

cgccacgcgt ccgggcacat tgtgaatgat gttccaaaca gtttgctgaa gcacatcggt 60

ggctagaaca attaaaacaa gccagtgaca aacagcagag atacacatga ggtgaagctt 120

gagcaaggcc ttcaagtgt taaggttttc aaggatcatg tgtgcaagac atctatactg 180

gatgactttg gcttttacga taatcgtgag aagatgattc aatataggaa agcaaagca 239

<210> 52885

<211> 227

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-047-Q1-K1-G3

<400> 52885

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aagtgtcgat ctttgcattg cagcagcagc tggctccaag gggcgggcga tcgctggaag 120

cttcgtcagc cgcgtcctcg ccggcaaggc cgtctcgccg aggagggccg tgcacgcctc 180

ggcgtacgac atgaacctgg aggaccaggt gcgccggcg ttcgtgc 227

<210> 52886

<211> 97
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-047-Q1-K1-G4

 <400> 52886

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 aacacaaata aaacataaaa aaaaaaacac acatcac 97

<210> 52887
 <211> 270
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-047-Q1-K1-G9

 <400> 52887

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 tgtccgatac tgttactgat gatcagttga aggagatggt tggaaaatat ggaaccataa 120
 caagtgtctgt tgttatgcgg gatagtgatg gaaattctag gtgttttgga tttgtcaatt 180
 ttgaaaatgc agatgtctgt gctcaggctg ttcaagagtt gaatggcaag atattcaatg 240
 ataaggaact gtatgttgga agagcacaaa 270

<210> 52888
 <211> 359
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-047-Q1-K1-H4

 <400> 52888

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 atacgttatt gtttacccta ccgtatctgt aaagtaatga tgccggccga actacctttc 120
 ctaacgcgtt tgggcagaaa ttcgttgctg tcaccatatt ttgactgttg tttttttctt 180
 tttgtctttt gatttttttc tttttttctt tttttttttt attttttttt ttttttttat 240
 tttttttatt tttttttttt ctatttttat ttattttttt ttttttttta tattttattt 300
 tttttttttg ttttttttat tttttttttt ttattttatt tttttttttt cttttttttt 359

<210> 52889
<211> 131
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-047-Q1-K1-H6

<400> 52889

ccttattccc tctcgacca ctcatcctaa aaaaaaaaaa aaaaactttt aattttaaaa 60
aaaaaaaaaa aaaaaataag aaaaagtata attttaaaaa ttttaaaacc aaaacaataa 120
tatattataa t 131

<210> 52890
<211> 315
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-048-Q1-K1-A1

<400> 52890

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gggttaattg aaattaagtt caggtcagag gaactccaag actgtatggg caggcttgac 120
ccagagttga taaatctgaa agcaaaactt caagatgcaa agcatgtaaa tgtaagtcta 180
ccatacatag aatcgcttca gaagtgttta gaaacgcgta caaaacagtt gttaccttga 240
tatacccaga ttgcagtacg ctttgctgaa ttgcatgata ctttcctgag aatggcagct 300
aaaggcgtga ttaat 315

<210> 52891
<211> 359
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-048-Q1-K1-A10

<400> 52891

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tgtcggactc ggaggagcac cacttcgaat cgaaggccga cgctggggcg tccaagacct 120
acccgcagca ggctggcacc gtccgtaaga acggcttcat cgtcatcaag aaccgtccct 180

gcaaggttgt ggaggtttct acctccaaga ctggtaagca tggccacgcc aaatgccact 240
 ttgtcgccat agacatattc aatgggaaaa agcttgaaga tattgttcct tcatcacaca 300
 actgtgacat tccgcatgtg aaccgtactg agtatcagct gattgatatt tctgaggat 359

<210> 52892
 <211> 124
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-048-Q1-K1-A11
 <400> 52892

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 gtgttttact attaccacca ccacctcnaa tccaanacct acacttgac ttccaatacc 120
 tacc 124

<210> 52893
 <211> 243
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-048-Q1-K1-A12
 <400> 52893

agtcacatcc atcatccatc cttgcttcca agcaccaact aatcaaataa cgagcagcct 60
 tattaataat tactcaccat ccacaaacaa aatcaacaa cctcacttct accttctact 120
 gatactgaca ctaacaattg catccaatct gttctctctt cataaagaaa ccatcctcca 180
 aatctaattc ttcttctccc tccaaaactt ttacatcttt tcaactccata ccccatcttt 240
 ttt 243

<210> 52894
 <211> 156
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-048-Q1-K1-A2
 <400> 52894

cgcacgcgtc cgcacatata tgatcttgct tgtgtgtcaa tgtgtcgaaa aacatagctg 60

gggttttagct atatgaatgt aacgcgcaat gtaacataca ggactagctg cttgcttgac 120
 gatgcgtttg cgtgtatccg tataaattaa aggcta 156

<210> 52895
 <211> 297
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-048-Q1-K1-A5

<400> 52895

caacaacgtg aagtcgagtg tgtgtgacat tccaccaatt ggcctgaaga tgtgctgcga 60
 cattcgttgg caactcaacc tccatccaag agatgttccg ccgcgtcagc gagcagttca 120
 cggccatggt caggaggaag gctttcttgc actggtacac aggctagggt gttgatgaga 180
 tggagttcac cgaggcatag atgtacatga acgacctggt ggccgagtat cagcatgtct 240
 tggatgccac tgccgaggat gaggagtacg aggaggatga agatgaagag gaagaga 297

<210> 52896
 <211> 334
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-047-Q1-K1-C11

<400> 52896

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 tgtgatggaa gaagaacaaa ggatctatac aaggcttcaa caagagagga gggaaagggga 120
 ggaggctatt aaaaggaagg ctgagagaaa tgcaaaaatg aaagctgaga tgaaggaaaa 180
 gactatgaga atgttcctgg tttctcagaa acacattggt tacaccgaac cacttgaaat 240
 acatgctgga actactattg atgtgcttta taatccttct aatacagttc taactggaaa 300
 gccagagggt tggtttcgat gttcatttaa tcgt 334

<210> 52897
 <211> 225
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-047-Q1-K1-C2

<400> 52897

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tttttttttt atttattttt tttttttttt ttttttttta ttattttattt tttttttttt 120

ttttttcttt tttttatttt ttatattttt attttttttt tttttttattt ttttttttat 180

tttttttttt tattatcttt tttttatttt ttttttttat ttttt 225

<210> 52898

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-047-Q1-K1-C4

<400> 52898

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aagtctgctt caaggctctg tccaagtggc tgctgcccgt tttgtgcatc accctgttca 120

ttcttacctt gtcattctgc tacttccagt tctttatagc ttacagctca tcttcaatat 180

acttggtttt ctcttctctt tttcatcttt tgcttttact ttattttttt ttttatgttt 240

tatttttttt ttttttcttt ttttttttta tttttttttt tttttttttt ttttttaatg 300

ttttttttta ttttatattt tttttttttt ttttaattata tttttttttt tttctttttt 360

ttattttctt tattattttt tttttatttt ttttttttat tatttttttt tttattttat 420

tttaattttt tttttt 436

<210> 52899

<211> 122

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-047-Q1-K1-C8

<400> 52899

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gattgtcatc ttccacatca taaccttcaa cactgacatg cattctttaa atcttctatt 120

ca 122

<210> 52900
 <211> 142
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-047-Q1-K1-D10

 <400> 52900

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 tggtcgtatt tcttcttcac cncaccttcc ccnnccggaa ggcggttatc gttcgcgtgt 120
 tctatgattt cacctcttac ct 142

<210> 52901
 <211> 484
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-047-Q1-K1-D11

 <400> 52901

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 ggtaccggca cctgctcagc aaggaccag cgaggcgaag gggaaagcga aatcgaagca 120
 gcatacggcg gagatggagg agaggcagcc cgtggacgcc agagtgactg tggagtacga 180
 ccaccgaggc gtctgttggg tctacttgag ccttatgcct tctcttgctt ttattagcta 240
 caactcattt gctatctgat ttctagtttt ttatttttta ctcttcttta ctcttttatt 300
 ttttattggt ttgttaatat tttatttact ttatattata tttcacnctg tttttttttt 360
 tttatttata agcccaanna aaaatgggta ttttcaattt tttataacaa ccaattttta 420
 aattaatttt ttttattata tttttattta tatatatatt ttttttttta ttttatttta 480
 tttt 484

<210> 52902
 <211> 425
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-047-Q1-K1-D2

 <400> 52902

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aatgatcaaa aagatggccc cctgcaaagt agcagcagcc ttactcctgt tgatcacaac 120
aatttcgctc aacaccgtaa ccgggtcgcg atgtaacgct caggagaaga accagattgt 180
gagcttgtgc caaatgtaca tccagagagg aaccctcggt cagcttccat cccaaactgg 240
gccatgctgt gctgctgtta tagagcctga taggtttcac agggtttatg cagatgaagt 300
gcatttgagg tcttttttac ccttgatact tttttaatta ttatctatct tttatctatt 360
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tttta 425

<210> 52903
<211> 192
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-047-Q1-K1-D3

<400> 52903

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cagtctgatg ttgctatcct gctggacaac gaggccatct atgacatctg ccgccgttcc 120
cttgacattg agcgccaac ctacaccaac ctcaacaggc ttgtgtccca ggtcatctca 180
tccctgactg cc 192

<210> 52904
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-047-Q1-K1-D6

<400> 52904

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atctctgccg atccggagaa gcaggcggcc cccgcggcac atgagactgc cgtgcacatc 120
gtgtacgttg accgtcccta ggacgctgac cctgatgagt ttcacattct caccttttat 180
tttttccttt ttagtttaca tattgttttt gtttctttgt ttttattatt cttttacttc 240
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tttttttttt tttttatttt tttttttttt tttctttttt tttatttttt tttttttttt 360

tttttttttt tttttttatt ttttttaatt tttttttatt attttttttt tttttttt 417

<210> 52905

<211> 100

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-047-Q1-K1-D7

<400> 52905

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gttttttttat tatcgttaaa cttttaaaaa tattttaaatt 100

<210> 52906

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-047-Q1-K1-D8

<400> 52906

taaaaaaaaa aaaaaaaaaa ttaaaaatta aaaaaaaaaa aaaaaaaaaa aagaaaaaga 60

aaaaatataa aaaataaaaa aaacaaaaca aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaaa aaaaaaaaaa aaaaaatcaa tcaaataaaa tacataaaaa aaaaaaaaaa 180

aaaatataaa aaaatttaatt aaaaaaacaa tataaaacaa aaataaaaaat aatataataa 240

taaataaaat aaaaaaaata ataaaaaatc aaaaaaaaat taaaaataaa ataaataata 300

taaaaaaaaa aaaataaaaa taaaaataaa ataaaaaaaaa tatataaaaa aaaaaaaaac 360

aaacaaatta atataaataa ataaaaaaaaa aaaaaaaata aa 402

<210> 52907

<211> 307

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-047-Q1-K1-D9

<400> 52907

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 gggttttcttc tgttcatata acatcccna accctgctgg tcagataaga tttgtgaaca 120
 caccttgcca ctgagagaga aggcgtctta taatttgata tgaacaagaa tcaacaatgt 180
 tcattattaa aaaatattaa caaacatata tttttatttt ttattattat tatctaatat 240
 tattctctct ttaattttatt ttcttattat ttttaatttt ttcttctata tttacttttt 300
 tatttttt 307

<210> 52908
 <211> 101
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-047-Q1-K1-E3

<400> 52908
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 ttcagaacct tatacgactc tgttcagtc atcaaacct c 101

<210> 52909
 <211> 432
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-047-Q1-K1-E4

<400> 52909
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 ctaaagatat tataactcat tttaaagatc tacctactat tttcatcttt tttttatttt 180
 tttttattat tttttttatt ttttttattt ttttttatcc tttttttttc atctttatta 240
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 tttttttttt tttttttttt atttcttttt tttttttttt tatttttttt tttttatttt 360
 tatttttttt tttttttttt tttttttttt tctttttttt tatttttttt attttttttt 420
 tatttttttt tt 432

<210> 52910

<211> 431
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-047-Q1-K1-C1

 <400> 52910

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 aaataacttg tgaacagtac cgagggtgta tatattgcag tgacaaataa ctaggacact 180
 gctaattcta ctgctggctt accactgtct tggttagatt tatccctaca agattgttta 240
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 tttttttttt tttttttttt ttatatattt tttttttatt tattttttttt tttttatttt 360
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 <213> Zea mays

 <223> Clone ID: LIB3079-047-Q1-K1-E5

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<210> 52912
 <211> 192
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-047-Q1-K1-E6

 <400> 52912

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 gttggatacc ctgcgatggg cccaagagg gagctcaagt ttgccttgga gtctttctgg 180

gatgggaaga gc

192

<210> 52913
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-047-Q1-K1-E8

<400> 52913

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atcattctgc caagctgggg gctgcatcgg ctgccacgg tctccaccac cgccgtccga 180
tgagacatgc tactaggacc tcaagtgttc ggcttctatg tgccaccttg gttgcataca 240
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attcactttt ttgctttttt tttttctatt tcttactttt ttttctatat gtttttcctt 360
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<210> 52914
<211> 128
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-H5

<400> 52914

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tacacaacaa aacctcaacc aaacaaccaa caacaccaca aacaacaaca caaacaacaaa 120
tatacact 128

<210> 52915
<211> 200
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-H9

<400> 52915

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 tacaccaatc tctacaaaca caactaactt accccatcta caaacattat caaacttata 180
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<210> 52916

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-047-Q1-K1-A1

<400> 52916

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 gagcaggagc aaatgttatc gttgcgtctg tggaggagaa tgttacaaat tgtgacctct 180
 cttcatatgt ttaatctaata agctgatatt atattgtatt aattcattta aatgctatct 240
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 ttttggtttt gttttttttt tattattttt ttttttattt attttttttt tttttattat 360
 ttattttata tatttttttt ttttttttat ttttttttat tttttttatt tttttttttt 420
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<211> 87

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-047-Q1-K1-A10

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 aaaaaaaaaa aaannanacc ccccccc 87

<210> 52918

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-047-Q1-K1-A2

<400> 52918

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tgtttacttt gactcgtttt atttctcttt atcttattat tttctttttt tatttttttt 180
tttttttttt atttattata tttttttttt tttttttttt tttttttttt tttttttttt 240
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ttattttttt ttttttattt ttattttttt ttttttattt tttttatttt atttttttta 360
tttttttttt tttttttttt tttttttttt tttttttttt tttttatttt ttttttattt 420
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<210> 52919

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-047-Q1-K1-A3

<400> 52919

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cccgtcatgg agctgcctca aatacattcc caacaggctg gccggagtgg ccctggccgc 120
gccggcgggtg aactactggt ggccgctgcc tgctaacgtg tcgagggccg cgtacgggag 180
gtccacgcc cggtaccgta agacctcttg gatcgcgcac cacgcgccgg ctctgcttta 240
cgctggctc gcgcataatt gtgttttggt gttttttatc ttattgtttt atcttctagt 300
agggtggtgt tttttacttt tttattctat ttttttttta tttttttatt ttttattttt 360
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<210> 52920

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-047-Q1-K1-A4

<400> 52920

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 ccacgtcgct cattcagatc gaggtgggtga acaccattta tgacttcaact ttttctcttt 180
 cttgcttctg tctgtctttt actttctttt tatttatatt ctattttact ttttattttt 240
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 tattgttttt tttttttttt attttatttt tttattctat tttatttttag tatttttttt 360
 tttttttttt tatttttatt tttttatttt ttttctttat ttttttttta ttctttttta 420
 ttttttttat ttattctttt tttttttatt at 452

<210> 52921
 <211> 79
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-047-Q1-K1-A5
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 atgcacccct cctccactc 79

<210> 52922
 <211> 426
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-047-Q1-K1-A7
 <400> 52922

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 gtccagatct tcatcaagat gcatcggtca gactatgctg agaagcaatt gaagatcatg 180
 caacaaattg atgaagacca tacacttaca caacttgcaa actcatggct tgtcattgct 240
 gttgtttgct ttaatatctc tgtatcttat tttatattcc attacttttt tgatgagttc 300
 ttttttttct attttttttt ttattttata ttttattttt ttcttttttt ttattttctt 360
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tattttt

426

<210> 52923
<211> 224
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-047-Q1-K1-A8

<400> 52923

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aaaaaaaaaa aaaaaaaaaa gaaaaagaaa aattaaaaaa ttataaaaaa aaaaacaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa taaaaaaaaa aaaaaaaaaa 180
atataaaaaa taaaaataaa aaaaaaaaaa ttataattaa ataa 224

<210> 52924
<211> 62
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-047-Q1-K1-B1

<400> 52924

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ca 62

<210> 52925
<211> 255
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-047-Q1-K1-B10

<400> 52925

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gagcattcag caacagcctg cnacctgcag tcctgcctc cgcctcctcc accctgaccg 120
tcaacagaag aagacgagga tgctgggatc caaggtgtac accctcgagg aggtggctta 180
gcacaacacc aaggacgact gctggctcgt catcggcggc aaggttttta atgtgaccaa 240

gtttctggag gatca

255

<210> 52926

<211> 271

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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agataagttt tttggcctca aacaccnata ctatatccan ggccagtgtg cgatcatcat 120

gtttgatgta acctcaaggc ttacttacia gaattttctn accttgcata aggacctttt 180

caggttcttt taaaacatct tcattttctc tttctttttt tattgtttaa ttttttttta 240

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<210> 52927

<211> 287

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-047-Q1-K1-B12

<400> 52927

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cgggttcctt tggtgtccct cccaaacttc cccctgaatg aaatgccact ctgcctaacc 120

aaggttacct gttgcctggc ctgccccgcc cttctccctt ggccctcttc ctttctcttc 180

tccccgcgcy ggtgtttgcy cgtgtttaga gggccatatg ccacctgtaa agcttgaaca 240

ataaaacatt tgtgcacatt cacatgtgtg aatttttttc cttcttt 287

<210> 52928

<211> 73

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-047-Q1-K1-B2

<400> 52928

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atcctatcca aaa

73

<210> 52929

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-047-Q1-K1-B4

<400> 52929

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gttgatcttt atacatgggg gttccatgtg ttacaatggc tgggtgctgtt catgctcata 120
acgttggtgt cagcttgctc agcaaagtcg ggttggggag gctggttgcc aaaactgatg 180
atgagtatgt gagcctagcg ttgtatttgg ctttttattg ttatgtcctt catgttctgt 240
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<210> 52930

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-047-Q1-K1-B5

<400> 52930

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ttcaatgtct gttagcgggtg gcatcaatgt ccagtgatg cagacccgc tctgtgctaa 180
tgctcctgct gagaaaggag gcaagaactt catgattgat ttcatgatgg gcggtgtttc 240
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ccaagattat gattattaag tcttgtatgc tttcatagcc tttcaatgtt attgttgtct 360
gctttaaact tattattttt gttttatgtt ttcttttttt tttttgtttt ttatttgttt 420
attttttttt tattt 435

<210> 52931
 <211> 293
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-047-Q1-K1-B6

 <400> 52931

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 tccaggaggt ccgtagctgc tcatccatgg catgatctcg agatcgggtcc tgggtgctcct 180
 gctgtattca atgttgttgt tgagatcaca aagggaagca aagtcaaata ctagcttgac 240
 atgaaaactg gactgattaa ggttgatcga gtcctttact catcagttgt tta 293

<210> 52932
 <211> 428
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-046-Q1-K1-H12

 <400> 52932

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 gcttgacaac ctgggtcgtc ttagccagca tcactttctg ttattcaagt tcgctaacta 180
 gtttcttttt tttatctatt ccttcaatta cttgcttcta ttattctctt ttttctttta 240
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 tattcttttt tctttcttat ttttttttct tttttttatt tttttattct tttttttatc 420
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<210> 52933
 <211> 116
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-047-Q1-K1-B7

<400> 52933

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gctccccggc tcgctggcgt ggcacagcag caactgtgca ccgggcgcgc ccggca 116

<210> 52934

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-F12

<400> 52934

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cttgctgagc ttatgctagg gcagcctttg tttccagggtg taagtgggtgt ggaccaactc 180
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atltggtttc cttcttttac tttttttttt ttttttattt ttttttggtc tttttttttt 360
tttttttctt tttttattga tttttttttt tttttttttt ttttattatt ttttttttat 420
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<210> 52935

<211> 245

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-F2

<400> 52935

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gtgatgatat gagaaatcag gtttggtagg ggctgctgcc tgggcaagtg gggtttctgc 180
atatggtccc aggtagtatg gtcgcacatg tctgctcaca gattctgttt aatgaaggaa 240
ttttt 245

<210> 52936
<211> 237
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-F4

<400> 52936

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aaggcaaaga ccttgccctga aagcacgagc attgagaaca agctgaccc t tacggcctc 180
tacaagcaag ccacggttga agatttgatt accaatcgtc cggccttatt ttaccaa 237

<210> 52937
<211> 329
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-F6

<400> 52937

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ttgttgagaa catgatggat atccttcac tggtactttc ttctccaata ctgctcttga 180
ttacttttct tgctcccctt tcaacttccc tatogetatg ctagcttcat ctcatgttct 240
tgtcttatgt gcttccttac ttattcaaa ccttcttttt gttcatcttt ttattaataa 300
tactactatc acatatccat attcctctt 329

<210> 52938
<211> 259
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-F8

<400> 52938

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aatcacccaa tgactccaaa gaacataaga atgcaacact caaagatcct aagaaagcac 180

caaatgattc taaaggactg aataaagcgc ttaaagatcc taaagaacat taatcattcc 240
aagacccaaa ctaacatac 259

<210> 52939
<211> 458
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-G10

<400> 52939

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<210> 52940
<211> 167
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-G11

<400> 52940

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ggtgtgccga agccggtggc aaacggaggc gatgtggtgg cagtggcaga gtcaggcccc 120
gcgagctggg atgaggtggc taggctagtg ctacgcatag actcagc 167

<210> 52941
<211> 248
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-G12

<400> 52941

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agttttccaa gagctgagga ccacccttaa gaagcagcac gaagatgtgt cacttagctt 120
gaagaatttg tggcttcaag atgctaccta aaatgatggg aacaaaggaa atggagactg 180
cacaaatgag gtcttgtcag ctaacttggg gaacttgaaa ctggatgttt cttcttaata 240
ctattatt 248

<210> 52942

<211> 293

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-G4

<400> 52942

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catcactcta tattgggccc ggcaattgct gaagctttga aggactctag catgcctgta 180
cgtctagctg cagaacgctg ctcccttcat gttttccagt taacgaaagg gccagataat 240
gttacagcag cacaaaagta ccttgggatg actggcttgg aagtgaagaa aat 293

<210> 52943

<211> 320

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-G6

<400> 52943

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taggaatgca ggcattgcac atgacttcac aggaacatgc cgctccttga gccgtgatag 180
gaatttcact gaatcgggcc cattctctag tatgagaatg agacctggctc attcttctcc 240
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atggttgga gagaaaaggc 320

<210> 52944
<211> 233
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-046-Q1-K1-G7

<400> 52944

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gtctttaaga ctaatcgact gtgcgcccta atacaagaaa gtcgtatcac tcgatagcaa 120
acccgcacat ggagtcaaac tgaatcggac ncattcaacc aactgagaag agaccattca 180
catgctcaat ctttaactca aacttaccta tctatcaact cacatcagag cgc 233

<210> 52945
<211> 241
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-G9

<400> 52945

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tctttaacag ccgcgtcccc tccaaggtag cccaatcgaa accactcgcc cggccaccat 120
ggcctttgcc agctcgctgc ttcccgctgc tccctacctc ttctgcgcta cccccgcgtc 180
ctacgtctcc ttcttctttc cgccattaa catcaactcg ctcttttctt ctgcgcaact 240
c 241

<210> 52946
<211> 203
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-F1

<400> 52946

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cctcaccaac aaaatccata ccatactatc cacacacgct ctaaaccctc tttcttaaaa 120

cgtactccat tatctacctt cagttcgtgc tcaccattga cttaaacaac accgtataacc 180
 atatcacccc gatcccactc tta 203

<210> 52947
 <211> 380
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-046-Q1-K1-C10
 <400> 52947

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 gttttttaaa gacccgggga gcggacctgt tctaattctt cctctcatct ctctctctct 120
 ccttctattc tataatcatct ttttatgtct attttcattt tttttctttc tattctttat 180
 taatttttct ttactttttt ttctattact ttttttattt tctatttctc ttttttattt 240
 tttttttttt tctcttttct tataatcttc tttttttcct cttttttttt tatttttctt 300
 cttattttct ttctttcttt cttttatttt cttattctct ttcttttatt tctctcttct 360
 ttatcctttt tttatctttt 380

<210> 52948
 <211> 362
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-046-Q1-K1-C3
 <400> 52948

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 cagaatccaa acgcatcaaa aacctgtatg tgcggcaaat ctttcgcgac tgcgaaggaa 180
 ttcgaggctg catcaaacgc ttgctacatc tagagtagtc aaatattgat agcaaactgt 240
 gatgtaactt gttatatatc tttgttctga tcaaatacag tagcttcacc acttatactt 300
 ggttcgtttc aaaatagttg gctttgtttt tattaacatg ttactttttt taatattttt 360
 ct 362

<210> 52949

<211> 192
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-046-Q1-K1-C6

 <400> 52949

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 cttattctcg gctcgttcat ttcaaatttt tatatcacia acccaatcaa acttaaataa 120
 tatctataca agaaaacatt actcattaac ttttacacia ctccttactc ataatttcta 180
 taccctcaca at 192

<210> 52950
 <211> 346
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-046-Q1-K1-D1

 <400> 52950

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 tcctatcaca attccatacc tcttgtgaat tgcataatcc ctcgaaccat ctagtttttg 120
 aactctatgt ggcgccgaag ccttctggcg aatgtcacgt ctacctgtac gttacaccaa 180
 aagacattgt ataataaaat aaagatatct aaaactataa aattcaatac attataatct 240
 attaaactcat tcaaaaaaaaa atggtcacat gttttataaa atccattttt acatcccctt 300
 acatccgcct taataatttt tttaatgggt ccctaaattt aattta 346

<210> 52951
 <211> 382
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-046-Q1-K1-D10

 <400> 52951

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 ccaagacttc aaccttcctt tgcattctgt gatcgggttc gcatgtccgc gacagatccg 120
 ggcaaacggg ccgatgcagt tcttcggctg ctgctgctg acgtcggctg cgctcaatgc 180

ttcttttttt ccttcttttt ctctataatt tttttctttt ttttattttt ttttttttat 240
tatatttttt tctttccttc ttttactctt ctttatcttt tctctttctt tttttattat 300
tttttttttt ttttttttct tttatttttt ggtttattaa ttttttttct tttttatttt 360
ttctattttt ttattttttt tt 382

<210> 52952

<211> 336

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-D12

<400> 52952

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ccagcagccc acaacttcac atctcaatat acatcacaat tttaatccat ttcacatttt 120
caatcatacc attgaattct tcttcaacct tcaaattcta attcctccaa atcatgatta 180
tcaaatatct atcctgaaca ttgtatcttt taaaacttca aattcccat ataactcata 240
cttttttact actttttcta ataaatcact atacatatca cttctacata ttcacataat 300
tctcatcatt ccaaacaatt tacttctttt ttatta 336

<210> 52953

<211> 285

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-D2

<400> 52953

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tagttcttag gatcgtaaat taggtggtag gaatgtaggc aagtaccatt ccaaggaatt 120
gaaagagagc taagcctaag gaagagaata gcaagaaaaa aaggaaatgt tcagtgttaa 180
gcttaatgtt ttgtcacgag gacacacttc atgcataatt gttacgttct aaatttgatc 240
catttgggtct tgtgggtttg attacattac agttctgcac atacc 285

<210> 52954

<211> 230

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-D4

<400> 52954

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tcatagtgtc gcataggacg cgagccagta tctgtaagga tctatgtatg tctatactac 180
gtcctactcg ctgtgactcg tacgcttctc ctccgtctgt gactgtcata 230

<210> 52955

<211> 188

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-D6

<400> 52955

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tactacaaac gtgattctta atctccttcc cttgctgaca cctgatcagc tgtcaacctg 120
tcttgctcat ccgtgatcat ccaacacatc tctccttccg accatcctgt atagatctct 180
tctcttca 188

<210> 52956

<211> 309

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-D8

<400> 52956

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cctcaatcag gggggcagtt acctgtatct cttctcttag ttgctctgac tctattcttt 120
ccaagtggaa gaagaatagg atgctgatgc tcaagtgtaa gctcctgaaa atgtgacata 180
tatctactta atcttatatt agttacttat tattttatat ttttttatgt aaattacctt 240
tttttttatt aattattatt tatattatct tatataatat tttttctatt tattttttta 300
tatttttat 309

<210> 52957
 <211> 186
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-046-Q1-K1-D9

 <400> 52957

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 tgccatctca taaacttctt atcaacatct ctttttctca agtgactgcg aattctatcc 180
 tttttt 186

<210> 52958
 <211> 217
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-046-Q1-K1-B9

 <400> 52958

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 gtttcagaaa tttctcagaa atttatttaa tactttgcc a tccccttata ttgattttct 120
 cctattcttt tttcttttta ttctttttat atcttcttct cttattctct tatttttttt 180
 tttttttact ttttttctta tttattttct tttttt 217

<210> 52959
 <211> 68
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-046-Q1-K1-E3

 <400> 52959

 ttttagtttg aattaagtac atttatgtaa gagttatttg acagcgatta tgaaatcgag 60
 aattatct 68

<210> 52960
 <211> 284
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-046-Q1-K1-E4

<400> 52960

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tgancgcttt cttcgccaat aaggagatga ggattctcat ggtcgagctc gatgcctcct 120
gtaagaccac catcctctac aagctcaagc tcgtctagat cgtcaccacc atcctcacta 180
tcggattcaa tgttgaaact gtttaataata agaacattat cttcactggt tgctattttt 240
gttgccatga catgatcatg ccccttttga agcactactt ttat 284

<210> 52961

<211> 183

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-E7

<400> 52961

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agctagagag agatctagta taggatgtat ctatttagtc ctcgaacgaa catgttcgct 120
gtcttcatct ttcacctacc agtatatcac taattatttt cttaaaccct atatcttttt 180
cat 183

<210> 52962

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-G5

<400> 52962

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ggcggcgccg acgaccggcg gcgtgaagaa gccccacagg tacaggcccg gaaccgtggc 120
gctgcgcgag atccgcaagt accagaagag cacggagctg ctgatccgca agctgccctt 180
ccagcgcttg gtgcgcgaga tcgcgcagga cttcaagaca gacctccggt tccagagcca 240
cgccgtgctg gcgctccagg aggcgcgca ggcctacctc gtcggtctct tcgaggacac 300

caacctctgc gccatccacg ctaagcgcggt caccatcatg cccaaagaca ttcagctcgc 360
 ccgccgcac cgtggcgagc gcgcgtagcc atcatcttcg gggatctgat gaatgtctag 420
 ttaccaaaca aa 432

<210> 52963
 <211> 372
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-G8

<400> 52963

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 ggccctgagac agatgaagac agctattgat tgttggtgtt gtcgaacctt cctatagtg 180
 attagaatca gaaactttgg cttcagttcc ttcgctatgg gccccttgta ctgctgcaaa 240
 tggagttttc cattgtagct gataaagtgc cgacaagggtg catccatagtg tgcataagggtg 300
 gcactgaatc ggggctcact ggaccagttt gatattgtag taatatatat acagctggga 360
 gcaacataat tt 372

<210> 52964
 <211> 409
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-G9

<400> 52964

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 cgattgtttg gcccgatcaa ggagaagtac attcaagtcg ggaacgcagt ggctgtccct 180
 gttgcccggg cactgggcta ctgtctgggg caagcctacc tgggtgaatc tgaaggaggt 240
 gacccttttt accagctgcc ttcaagtttc acctctgttg gatgactcac tgcggggcat 300
 gcgatggcct ctctgtttgg caccctgca cgggaagtag ttgagcacta aaaggattac 360
 agatctgac tgatcttggc aacatccaac ggcaggagca ttttttgtt 409

<210> 52965
 <211> 171
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-045-Q1-K1-H1

 <400> 52965

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 tggaaaggta ttatattaat ataaataaat taaaaaata ataataatta ctttacttct 120
 aaattaatcc ttatcttact ttctctttca ttcttcattt taatcttttt t 171

<210> 52966
 <211> 231
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-045-Q1-K1-H10

 <400> 52966

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 catccatctt tcatactatc tcaataaatc cctttttcac tattcaacct tcatccacaa 180
 ttttattata cctcctcaat tacattccca taaccatttc actctccata c 231

<210> 52967
 <211> 338
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-045-Q1-K1-H12

 <400> 52967

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 ggaacttcgc tctaaacgac ccaggcttat ctgccttgc cttcatctac ataggcgac 180
 aaaagaacgt cctaccttca atcgactggc ctgccatcta ccgcatggac cctgataaaa 240
 cccttcagtt cctcacgtta atcatgctgg acttcattac tctttctgac gacgccttac 300

tatacaacag cccgccctgc tatgccattt acaacagt

338

<210> 52968

<211> 334

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-H2

<400> 52968

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gccgctcctt gagccgtgat aggaatttca ctgaatcggc cccattctct agtatgagaa 180

tgagacctgg tcattcttct ccaggctttc cactccaagc atcacctcag ctatgcactg 240

cagcagttag ggaagcaaaa aaatggttgg aagagaaaag gcagggactg ggcgtaaaac 300

ctgaagacaa ttgatcatgc acattaaata caga 334

<210> 52969

<211> 60

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-H3

<400> 52969

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<210> 52970

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-H6

<400> 52970

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gcgggtgctt gatcccaaca ctggtaggac actaagaata tatccccttg aaactgtaac 120

tagatgcgat gtattagatt cctctatattt tgccttttgg tccaagagtt cgggtggatgt 180

tgaaggaaaa agaataaggc tgaaatcaaa cagctatata tccagcacca ttcttgacac 240

tgtcacagct gcgactgtgc agttcaagga gatgggtgaa agcagcattt caagaagtag 300
agcaattgct gatgcatcca aacccgctga gcagcaaaat gagaggaaga aaaattttctt 360
gatcggagga atttaaattg 379

<210> 52971
<211> 356
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-H7

<400> 52971

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cgccggcgcc gctggtggac gcggcggagc tgggttcgtg gtcgctgtac cgcgcgggtga 180
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acaagcacca gacggacgcg tctgcgtcgg gggccgggtgc ggacgctgcg tgcggcggcg 300
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<210> 52972
<211> 239
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-H8

<400> 52972

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gctgccatcc taaatcaatg cgaagagtac atcaagcctt ggataccctc ttatactgcc 180
atcgtacgcc agtgtgtgtt gcgacaaggt gagagatgtg ccaaataggg acatgaact 239

<210> 52973
<211> 168
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-A12

<400> 52973

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catatcacat aaacctgacc attatataaa atacttacc ccaaaaccat ctaataacta 120
caatacatat atacatattc ccatctaatt caaaacaccc ttcttcaa 168

<210> 52974

<211> 304

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-G4

<400> 52974

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gggaaacata tggtgaatta cctatgatga gatgcataca gatgcagtgc ttccgcgaaa 120
cgaatattct tacataagcg agctacatca tatcagaatg atgaaagtca gcgatcatcc 180
tatggggcggg gcacctgctt gtcagtctgc gcatagctgt attatgtcct tgagcgccgg 240
cgactctggc tccatggtcc actgctgggt gtactcctct ggctgtata cagactcagg 300
gtta 304

<210> 52975

<211> 225

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-A4

<400> 52975

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caaggcgctt aaagagatca cagccacaca cctcctcgca taccgcgctc aaaccacctg 120
ccgcgaccgg tcagcaccat caacgaacca gtctggcgca gaaagtcgga caatccaaag 180
accgcctaac atccaggacc atcccaatct tcagtccaag ccccg 225

<210> 52976

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-A5

<400> 52976

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aacaatcaca caatactaaa gcactacttg cattaaacgc tcactacagg aaacatgaag 180
ttgacaaaga ttagcactct ctgcaaccac tttcaaacaa caaataacat catgaacttc 240
tcattaaact cacttcttac aacgatcata tgaatgaaaa cccttaactt cattaccatg 300
ccaacaaatc tcatagcatc aactactccc tgaaacctac ttaatgaaaa atgtacta 358

<210> 52977

<211> 244

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-A7

<400> 52977

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cccacaccgt gaacatcaac gccattattg atgcattcca cctcattaat cctcagacca 180
tgattctctc ccactacca cctcatacaa catcaaagt atgccaccta aataatccat 240
ctat 244

<210> 52978

<211> 92

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-B7

<400> 52978

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<210> 52979

<211> 398

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-045-Q1-K1-E3

 <400> 52979

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 atcgcgccgg cagatcatgt gtgctatgtg cactgcagct tctgcaacac agttctcgcg 180
 gtgagtgtcc cggggaatag catgctcaac atcgtgacag ttcggtgtgg aactgcgca 240
 aatctactgt cagtgaacct gagagcactg atgcactcac tcccagaaca agatcatcag 300
 ctccaggaga acatcaaggt ccatggcatc aacggcactt tgcacgatga tcatcagtac 360
 tgcggccatt tggatcaact cggttcttct tcgtcgtc 398

<210> 52980
 <211> 142
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-045-Q1-K1-E4

 <400> 52980

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 agacttcttc atatgtcctt tctactctcc accctctact attcatctta tcctagtcca 120
 tacaccctta cgattctcct at 142

<210> 52981
 <211> 340
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-045-Q1-K1-E5

 <400> 52981

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 cgtcacatga gttctcctct ctactcactt gatttcatta ttcaactcat aatcaagttt 120
 gtggtgttaa gttttaagtt ttacaggatc acctattcac cccccctcta ggtgctctca 180
 attggtatca gagccgttct cttcaagaaa gggactaatc gctcgaagag atggatccta 240

tgggcaaggg gatggtgggc aatgataatg agaaggagtc cttcgtcaat gatccaaaag 300
attacaagcc tactgactcg ggctcaagcc acatatgaaa 340

<210> 52982
<211> 109
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-E7

<400> 52982

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gagtaattta gaatactcac atcaacattc gtggccattg gccatgttc 109

<210> 52983
<211> 450
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-F1

<400> 52983

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gggtcggagg ggcagggcgt ggcggacgtg ctgttcggcg actacgggtt cacggggaag 120
ctgccgcgga cgtggttcaa gtcggtggac cagctgcccc tgaacgtggg cgacgcgcac 180
tacgacccgc tcttcccgtt cggcttcgga ctcaccacca agggcacgaa gtgagtgagt 240
gtgaggcgct ctgatgggat gtggcctgtg agtgagctgt gtattcgtgg gcgggcgtga 300
agctcttttg ctttcgaatt ggttgggggt gactggcggc gagtcgtgta cgccggacac 360
attgcgcagc gtacgttggg ttgggatgtt tgcgtctggg aataacagtg atgcattctt 420
gagatgggtg cttgtagtgt gggtttgttg 450

<210> 52984
<211> 255
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-045-Q1-K1-F10

<400> 52984

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gggcagtttg ccgtgggttt ntgataattt gtacttcgtc tgttttcgct tctgttgctg 120
taccattgtc ttaatcgatt tgtggatttt gaagtctcct tttaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
taaaactttc taaat 255

<210> 52985

<211> 232

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-F12

<400> 52985

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tgtatgcttg ttaccgtcat gtcttttctt tcaactactag gtcctcatcca acatcgatgg 120
cttgcttctt tatcagaaca tgtttgaata aacgctattt ggtaaaaaaa aaaaaaaaaa 180
aatattataa aaaaaaaaaat acaacaagaa caaataataa aataaaaaaca tt 232

<210> 52986

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-F2

<400> 52986

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ggaatgtata gattatgggc ttcttccagc acgccaacat attttgaaac caaccatgaa 120
gcaagaatta gtttcttaag ccctagatct gattcagtta gactgagtcc tacggcagat 180
gatatattgg gaggttcgat ctatgacct tcttactact cgtcactgtt cgaggatgtc 240
cgaaacaatg catgcaatca tcagggtgat aaacaaagtg gtagtaatga cagtgggttca 300
acatctgcag gccagacacc acgacttaaa tcttttgcta atgatgtgga atgtggacta 360
aaaagaccgt tgaactccta aggataaaac aacggggtca tcttggaacc taaatcctga 420

accaacggtt

429

<210> 52987
<211> 445
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-045-Q1-K1-F3

<400> 52987

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agaaccccga ccgcgggcca accaaaccct agcgagcgag gcgatcagcg tccggcgacc 120
ggcgacagag cgcaatggag acgcgcccgg cgccttgcca cctcgaggcg gccgtgcccc 180
cgggctccgg ggctgcaacg gcggcgggcg cgcagcagga ggcacccgcg gcgaagaaag 240
tggcggagga ggaggatccg cgcctgcgct gggccttcgt gcggaagggtg tacgccattc 300
tctccctcca gttcgcgctc accgcggccg tcgcgggccac cgcgtgcctc gntccgcca 360
tcccgcgctt cttcgccttc ggcccccccg tcgtcgtctg gtccacgtac atcgcgatcc 420
tncgtgtccc ggtcatcgct atgtt 445

<210> 52988
<211> 189
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-G1

<400> 52988

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gtgcgggggag ctttctgttt cggcgaccat ggatgatgag aggaacaccc agcatcacca 120
gggctgtgag gccagcaag acgcctacga tcaagttgac gtgaaggata gggggcttct 180
gtacagtct 189

<210> 52989
<211> 151
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-E11

<400> 52989

cctatatgct ccaacaagca ttcttatcaa gcaacatacc tctatcacc tagccatttt 60
aacaatctcc agccctatct atccttcaact catcattaca aaccatcatc tcacatcacc 120
tccatcaact ctttccacct atcatcaacc a 151

<210> 52990

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-G12

<400> 52990

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ttctaaccga tgctgaccag taattgcttg agcagtgtga cagcaaatac gcccgctact 120
tgtgcaagct aatgggcggt tattttgatt accacagggg cggttacttc ataaaaggag 180
cgtatcttca cgatccaacg actgttattg cttcggtgaa cccatcgctg ctgacttaca 240
cagaacgcgt tgtgagggtg cagacagtct ggatcaccaa gggccttact gttttcgaca 300
acaccaagaa aaggtactga gagatcacag actcgtagtg gcatgcccac cgtgaatgtc 360
gctatc 366

<210> 52991

<211> 346

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-G2

<400> 52991

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gtagtgttcg agctgggtta gcttgctaca gagagggggc gcaaagctag gctaacttg 120
aaggtgggca tttgtggaga acatgggtga gagccttcat cggttgcttt cttcgccaag 180
actgggctgg attacgtttc ttgctcccct ttcaggggtc cgatcgctag gctagctgca 240
gctcatgtgc ttgtctgagg ggctgccttc tcgttggcag cctgcttggt gtgcatctgg 300
tgattaataa tactactatg acagtaccat atgctctgtg aagagt 346

<210> 52992
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-C3

<400> 52992

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tcaggaaagc atgagcttga tttccggcgc ttctcgccgt cgagctcgaa ccagaagata 120
agaagaatcc gctaggggcg agcccatag aagatggccc cgcacccgca ggaggacaaa 180
tcagatcggc acagcagcgg cgccggtgcy tcgagggagc aggaacggcg gccgtccaag 240
gcatggggaa tcctcatctt cggcctcacc ggcgtcacca ccgccagttt cgctattact 300
caagttcgca aaagcatgga ctggttctac actcagttga ataaagtga gtcaacatca 360
tcttggactt ggaggtatac aagtaataac tcaagtcgtg gaagcttaat gaggaagcta 420
agaaaagtat ttatcagcga atgc 444

<210> 52993
<211> 130
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-C4

<400> 52993

cccacgcgtc cgggaggggg agcaagcatt ttccgtccgt ggaagaagat gtcttacgta 60
gtgcctcttc tgcactcgtt gtgggcggtg gaccatgcca tcctcgccga ggaggagctc 120
ctattcatca 130

<210> 52994
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-C7

<400> 52994

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cgaagaatgg tcgttttgtt gtcagacagg tgggttcgac cttcgcttat ggccatggaa 120
gaggtgatga tgccaaaact cttgcagagc ttgggttcca gattggcgat tatctgagcg 180
tcgcgatcat gtaactgcag attggcgatt acctgagcgt cgcgatcatg taagccggtg 240
cccgcaatga gttccggtga ctgcaccgga tagaactgat gtgatgtaaa aaatgcattg 300
gttgcgacga gcaagggagg agtatctgtt agcgctagga agtggaacca aaactgtctg 360
taatgccggt actaccaaag ttgcctagac actttgaacg atcaaaaaaa ataaaatagg 420
g 421

<210> 52995
<211> 335
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-C8

<400> 52995
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gtggaggggc gatggcggcg gctgatgtgg agtaccgttg cttcgtcggc gggcttgcct 120
gggccaccag caacgagtcg ctggagaatg ccttcgcctt ctacggcgag atcctcgact 180
ccaaggtcat caccgaccgg gagacggtga ggtcccgcgg cttcggcttc gttaccttct 240
cctccgagaa ctccatgctc gacgctatcg agaacatgaa cggcaaggag ctcgacagcc 300
gtaacatcac cgtaaccag gcccagtccc gtggc 335

<210> 52996
<211> 198
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-D1

<400> 52996
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gggcggtcca tgatacaaca gatgcaacag ccttgcaatg agtgcaaggg gactggagag 120
agcatcaatg agaaagaccg ctttccatgg tgcaaggggtg agaagggtcat tcaagagaaa 180
aaagttcttg aggttcat 198

<210> 52997
 <211> 263
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-045-Q1-K1-D11

 <400> 52997

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 aaaaacaaaa aaaaacaaaa aaaaacaaaa aaaaaaaaaa aaaaaaaccc cccaaaaaaa 180
 aactcaaac caaactaacc caacaatcca acacaaaacc ctttcaaaaa caacccccaaa 240
 acccaaacaa cccccacca atc 263

<210> 52998
 <211> 375
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-045-Q1-K1-D2

 <400> 52998

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 gttttcaatg ttgttggtga gatcacaag ggaagcaaag ttaaataatga gcttgacaag 120
 aaaactggac tgattaacgt tgatcgagtc ctgtactcat cagttgtata ctctcacaat 180
 tatggttacg ttccaaggac tctttgtgaa gacaatgacc caatggatgt gttagtcctg 240
 atgcatgaac ctgttggttac tggttcgttt ctgcgagcaa gagcaatcgg ccttatgccc 300
 atgattgacc agagtgaata ggatgacatg ataatagcaa tctgtgctga tgatcctgaa 360
 tatcgtcact acaac 375

<210> 52999
 <211> 152
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-045-Q1-K1-D3

 <400> 52999

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 gcggggcattc ttaagggtag cagctgcata cctgtaaagt taaaggccaa atgtgggttt 120
 ctgccttctt cagatttttt ttaagaagat aa 152

<210> 53000
 <211> 333
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-045-Q1-K1-D4
 <400> 53000

aaaaatcttc ccaaacccta gctcccgatc ttgatggcga accctcgcgt cttcttggag 60
 gtgacctttg gcgggtcccc tgcagtcctg atcgtgatgg agctgtacgc caactaggtg 120
 cccaagaccg cggagaactt tcgcgcgctg tgcacgggcg agaagggcgt tgggcaagtc 180
 ctgtaagccg ttccactaca agggcttcac gttttaccgc ttcatcccct atttcatgtg 240
 ccatggcagc gacttcaccc gctgcatctg ctcttgctgc aagtccatct actgctagaa 300
 gttcctcgac tagaagttcg tgcgcatgca cat 333

<210> 53001
 <211> 345
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-045-Q1-K1-D5
 <400> 53001

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 gcacgtacac ggtgcagatc aagacgagct gcgcgtcccc gcggagctcc gcggacgcgg 120
 tgagcctcgc gttcggggac gctaccgca acgaggtgta cgcgggcgact gtgacgcctc 180
 ggcgcggggt cgagcgtgc tccacggaca cgttcgcgct cgccggggccc tgcggctacg 240
 gcgtctgcta cctctacctg cgccggtctg gccgctcggt cgggtggacg ccctagtggg 300
 tcagggtggt cgagccggct ttcggtgcgt ctctcacctt ttact 345

<210> 53002
 <211> 264

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-045-Q1-K1-D8

 <400> 53002

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 gatggatgaa gaacgtagca taatgcgata cctgggtgtga attgcagaat cccgcgaacc 120
 atcgagtttt tgaacgcaag ttgcgcccga agccttctgg cggagggcac gtctgcctgg 180
 gcgttacgcc aaaagacagt gaaaaataaa tttgagattt caattacaat ttagatcaaa 240
 taatatagta atataatatg tgtc 264

<210> 53003
 <211> 392
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-045-Q1-K1-B8

 <400> 53003

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 gcaagtctcg ttcaagggtga agacgacaag cccgaaaaag tactgcgttc gcccaaacaa 120
 cggcatggtg gcgccccggt ccaaggctga cgttggtgtt actatgcaag cgcagcggga 180
 cgtgccaccg gacatgcaat gcaaggacaa gttccttctg cagagcgcca ctttcgccaa 240
 ggaggtcgtg ccaaatgagg tcaactggaga catgtttacc aaagattcaa gcaatgtatt 300
 ggaagaagtt gaagtgaatg tagtttatgt agcaccatcc tcctttcaaa gcctatagat 360
 ttgaggattg taatctctgc agtttgagtt tt 392

<210> 53004
 <211> 457
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-045-Q1-K1-D9

 <400> 53004

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 gatcactgta ctgaaatagc atgctctagt cgaccgcgat gttttagacc gccttgcccc 120

tgggtggtggt gatggcgacg acgagcacag gcggtggcag ggcggcagcg gcgtgcgac 180
 ccaagccgct ggtggtgtgc gatccggcgt tcatggactg agcgaaaccc gcggcagcat 240
 gctgctccac cctgcgtgcg caagaggcat gcttgtgcgt gtacgccaaa gaccccaagt 300
 ttgcaaaata catcaacaac cccaacaccg tcaaaacctt tacctcgtgc ggcatagcca 360
 ttcccaaata ctaaacaagc gctcttcgtc gtcgcttcgc ttgctcttgc ttcttgggg 420
 aacatattca gcttatgaat aaattatgtg gatcaat 457

<210> 53005
 <211> 408
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-045-Q1-K1-E1
 <400> 53005

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 gaagggcatg agatgaatga ggaaatgaaa actcttgatc gtgagctagc tcgtgcaaag 120
 gtttcagcaa ataggggttc agtagtggtg gcaaataagt ggaaagatgg cgatgataaa 180
 gtaatgcctg ttaaactgat gctcgaggag cgaaggattc tgcaaggaga aatgcagcaa 240
 ctccgggaca aacttgctat tgcagaaagg gctgcaagat cagaagctca actgaaagag 300
 aagttccagc tacgacttaa ggtactcgag gaaggattga gaatgtctac atcgagaacc 360
 aatgtcagtg gcacacgccg tcagtctatt ggtggtgctg attgtttg 408

<210> 53006
 <211> 455
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-045-Q1-K1-E10
 <400> 53006

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 cttcaggggac gggtttcata atagtctggt gctggcgctc gactgctttc catgcacgtc 120
 gaggtcggac gaggacgcag agacatgctg gccagtggct gcggccacag gcccacatcg 180

tgtggcacca gcgacgagga ggtttagtc gagcagcgtg gcgcgggtgt cgttccgcgt 240
atggaggcac tatccgctct acattcgccc catcgttcca tggtagctaa ggtaccgta 300
ccaccaactc tctgactcta acgatcaatc gatctgcttt ggctagggag gtctcgattg 360
gtagatgcat gttgagtgtc tgcggtactg atgcggacng agcttgagag tcggattgat 420
gcatattgtg gtttagcgatt gactacttgt ttgcc 455

<210> 53007

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-A4

<400> 53007

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gtgatggtga aagctctgct tctggcaatg cactggcagg tatctcattt gcatccatgg 120
caccaagttc aggtcaccag gcgatgtcgt ccacatcaga ctacatcca gttttcccag 180
catcctcgct tctaccaggt tcagggtccag ggtcgatgac aaactttgtg cggtaagta 240
ccagaatccc tgttgtcatg gcgagcgata caagcaccac gcttgaatcc atatgttcac 300
cacatcggat gtgggtccact gaacgctgca ccagcaggaa ttcaacaagc tagagctcat 360
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<210> 53008

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-A5

<400> 53008

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gaggacgagg aagggtaccc agcgttcgcy ctggtgaaca aggtcaccgg cgaagccatc 120
aagcactcgc tgggacagag ccaccggta cgccttgtgc cctacaaccc cgagtacgtt 180
gacgagtcgg tgctgtggac ggagagccgc gacgtctggc acggcttccg ctgctgtcgc 240
atggtgaaca acatctacct caacatggac gccttccacg gcgacaagga ccacggctgc 300

gtccacgacg gcaccaccgt cgtcctctgg gagtgggcca agggcgacaa ccagcgctgg 360
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<210> 53009
<211> 460
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-045-Q1-K1-A6

<400> 53009

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gcaaggatta ttctggttgc tttccatgat tcttctagca tcctttgttg ctcatgcacg 120
cacaacaagt gggcacacca aagaggacag caatgctagg aacatgacga tgaccaagac 180
gagggcatcg ggcaacatac ttgttagccg taatgacgac gggccatgct atctagattc 240
cgggtcttaat gagtacgtct gcagaaagac taataagtgc tataagagct tggtgctctg 300
cgtggcgagt tgtcaaccat catcatgaat tcatgatact gcggaaacat catgatactg 360
cggagacaga ctgctagaga tgaggctagc tagatgctgg ttcacaaaaa tattatgtaa 420
caccceaaat ctccattnta agaaataaat aagatttttcg 460

<210> 53010
<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-A8

<400> 53010

gaatgatgcc ccagcagcag atgagaacaa tgataacaag gatgctactg caaatgagga 60
ggaagaaaag gaagaggaca aggagatgac tctggaggaa tttgagaaaa taagagagga 120
gaagaggaaa gcactacttg cattgaaggc tgaggagagg aaagttgaag ttgacaagga 180
tttgcagtct ctgcagccac tttcaaacaa gaaagaaaat gatgaagttt tcattaagct 240
gggttctgac aaggataaga agaaggaaaa tgctgagcgt gatgagcgtg ccaagaaatc 300
ggtgagcatc aacgagttcc tgaaacctgc tgaaggagaa aggtactact gcggccgtgg 360
ccgtggaaag ggccgtgggg attcgtgtgg tttt 394

<210> 53011
<211> 404
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-A9

<400> 53011

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tgtgctatct aagggctcta gagtactgtt gtgcaaggac cagacaatgc tatgatgaca 120
taaagaagtg cttggagcat tgccgtgggt gaaagggtga ataaaggata tgctttcttt 180
ggatcttagt tggatgatcag aaaaatgttc taccaattca tgcattgtacc aaaggataat 240
ataagctgct caaaaaatcg tggtaatta gagttttttg ttggaaaaat gataacttcc 300
ttacaaacat ataccaaatt aaagagaccc tcttaattgca tgatctatct ttaataaaag 360
aacatattcc atagtaaaaa aaaaaaattt aatatatttt ttaa 404

<210> 53012
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-B1

<400> 53012

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ctttatgatc acctaggaac tgccttgcct tggatgctga gtaattctga atatatcgta 180
tagatctttg gtcttcagta ctctaataa aataagacaa attctcttga aaatacaaat 240
cttgtgatag tgaaatgaaa ttcattttgt ttgtatggca tgatgagcta cgtgatgctg 300
tgctgcttgt tttcgccaac aagcaagatc ttcctaatac catgaatgct gctgagatca 360
ctgacaagct tggattacac tccctgcggc agcgacactg gtacattcaa agcacttg 418

<210> 53013
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-B10

<400> 53013

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cccattgttc ttttcacata ctataatcca attctgaaac gtggtgtggg aaacttcatg 180
tctactatca aacaagctgg catacatgga cttgtagtgc ctgatcttcc tttggaggag 240
acagcgttgc tgatgagcga ggccattatg cacaacatag agctggttca taccactct 300
catctttgca tgcaccactt gcacaaaatt tgttgcgtag ttgtgttgc atctgggtgc 360
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<210> 53014

<211> 240

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-B12

<400> 53014

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agttcacatg caccaccacc acattactac ccttcacagc tcctcctctc tattacatca 180
cactctccta cttctaattc ctctccccac actccaacct caatttctac cacctcttct 240

<210> 53015

<211> 462

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-B3

<400> 53015

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accgtgtaag gacatggccg tcgagcgctt gaagaccggg ttcgagcagt tcaaggccga 120
cgtctacgac aagaagccgg agctgttcga gccactcaag gcgcaccagt cgcccaagta 180
catgggtgtc gcctgctccg actcccgctg gtgcccgctg gtgaccctgg gcctgcaccc 240

cggcgaggcc ttgccgtcc gcaacatcgc cagcatggtg ccgccctacg acaagaccaa 300
 gtacgccggc gtcggctccg tcatcgagta cgccgtctgc gccctcaagg tggaggatcat 360
 cgtggtcata ggccacagcc gctgcccgtg gatcaaggcg cttctcttcc tcgaggacgg 420
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<210> 53016

<211> 343

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-B4

<400> 53016

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 ggatctcgag agcgtctgcc cggagggtgtg gtcgtgcgct gacatcgtag cccttgccgc 180
 cagctatgga gtcctcttta gtggagggcc ttactacgat gtgcttctgg ggagaaggga 240
 cgggctggtg gcccaaccagt catgagccaa cagtggctctg ccttcgccgt tcgagcccat 300
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<210> 53017

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-B5

<400> 53017

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 gagtgcgact atgggcagtt gagggttgtg ctgctctttg taagttgttg gagccccaat 120
 attgtgcagc acatattctc ccagttatcg taaatttttc tcatgataaa tcttggcgtg 180
 tgcgctatat ggtggcaaat caactgtatg aactatgtga agctggttgt actgaacca 240
 catggggtga tctggtgtca gcttatgttc gccttttctg cgacattgat gttgaattgc 300
 tgattgcagc tgcttgaaat gttcaaaatt cttgaaaatt ttaaaccac aaattgcaat 360
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<210> 53018
 <211> 325
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-B6

<400> 53018

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 gggacgcccc cctcgtggct cgcatacagg gagtcacggc cctggtcggc aacgcagacg 120
 ccttggtcac catggtgttc gaaaccgaca ggctaaaggg ctccacgctc gtcacaaacg 180
 gaatggtcac ggatgggtca gactaatggg cgatctacgg cggaaccggg gtgttcgcca 240
 tggccaccgg tgtcatgaag agaagaaacc ttgccggcgg tagcaactac tggaaactctg 300
 acgagcttgc cctggaagtt ttctg 325

<210> 53019
 <211> 442
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-B7

<400> 53019

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 gtgatgctcg gtgaaatcat aaactacgtg cagtcacctac aatgacaagt tgagtttatg 120
 tccatgaaac tggccaccgt gaatccccag gtggacttaa atagcctgcc taacgtcctc 180
 cctaaagatg tacatcagtc ttgtgggtcc ccacatttct cgctggagac ctcatagctc 240
 tcgttgctcg acctcagcca gcctcaccat ggaagccctc ttggctgcat ggacaaccag 300
 agttgtatgc atccacttga cagcagcttt tgcctggcga taaatccgca gtattcattt 360
 ccttaacggc gtttagcgatg catcggttta gttgcagcta atttgatgct tgtgtttatg 420
 gaaaccaaga agtggcgctg at 442

<210> 53020
 <211> 425
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-A11

<400> 53020

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ccccgccggc catgtcgaag caaggaggga aggccaaagc gctgaaggcg cccaaggccg 180
acaagaagga gtacgacgag acggatcttg catatctgca gaagaagaaa gatgaggaaa 240
aagcactgaa ggagcttaag gccaaaggac agaatggcgc gattgggggc tcgggtctga 300
agaaaagtgg aaagaaatga gactggtcac ccgtctccaa tacctagagg atgataaggc 360
agctgtctat ctgtgttgcg ctttactaaa tgtgattgta acagtggtag ctcttgtgtt 420
ctgtg 425

<210> 53021

<211> 141

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-043-Q1-K2-G10

<400> 53021

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aaataatcca ggctgtacgt acatataaat acaacagtcc tcctcttct atcatntcta 120
cctaaattca attcgctccc c 141

<210> 53022

<211> 266

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-043-Q1-K2-G2

<400> 53022

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aacagantct ttttaciaac gtgaatcaca tccatgntgn ccggctaaca tggatatat 120
tatctttatt gtcgtctcgc taacatgata aatacacata tttttccaa atactgtct 180

gtcatcacga acccagacat gttcaaaagc cctaactcag acacatacgt catattctac 240
gaggccaaga tcaatattac cccata 266

<210> 53023
<211> 359
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K2-G3

<400> 53023

tccgaattcc cgggcaccca gcgtgccttc ccagatccat tccacccgag gccggggcgc 60
ccaagcaaat ctacgcaca gaaacaccaa agccccagag gcccaaactc accacctccc 120
aatggagaac ggcgacgaaa ccctcgcttc cccacaggcc gccgccgaga cggacgcgct 180
caacggcggc gtcgcgagg aggagcaggt ccccatcacc caccgccaa agtcctacgt 240
cacgctcgcc gacgacaacc ccgtcctaa cggcgccgctc gtgaaagagg aggagggcgg 300
tgccacacc accgcgaagt cctacgcagc tgtcgccgcc caaacggaga tcgaggacc 359

<210> 53024
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K2-G4

<400> 53024

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ccaactgctg gcaacataaa cgtcctcgtc atcgctgctc tgcgttcct cgtaatcctt 120
tgatcacctc aactccccat gacaatcttt tcaaaaacca aatcaacaga tatgattgat 180
tttagttaa acttggttta ccatgtattg agttacgtat agtgcgatag tatcacattc 240
ttttggcttg tgtctacagt tccagtagga gttaggatag aacacaggat gagtccatag 300
cccttttttt gcacgttcat aatgtactca taatgtacct ggtgggtgta ctgtgtacat 360
attaaatatg acttcaggat gtattgattt tataagataa ttgaataatg atgct 415

<210> 53025
<211> 335

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-043-Q1-K2-G6

 <400> 53025

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 gtacctagct cgctctgcta gcctacggag ngggtgatca ccaccggggg gcgacgggag 120
 gtggcggnng ctacggcgac ctccagcgcg ggggcggcat gcacggcgag gcgcagcagc 180
 agcagaagca gggcgccatg atgacggcgc tcaaggccgc gacggccgcg accttcggcg 240
 ggtcgatgct ggtgctgtcc gggctgatcc tggccggcac cgtgatcgcg ctacgggtgg 300
 ccaccctgt gctggtgata ttcattccgg tgctg 335

<210> 53026
 <211> 356
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-043-Q1-K2-G7

 <400> 53026

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 tgttttcagg ggcaagtttt gatttcaaata tttaaatctg tgtttaagct ctcaaattca 120
 aacaaatgca gcaaacaaaa atataccagc atgagatgca aatacctaata gttattagtt 180
 aatttactat cctattttta gcaaatgcct ttacacatgc aactcctaca ctaaaaaata 240
 ggcatttttg agaaaaatga tctctagtat attaaaatcc ctaagagaga gcttataaac 300
 atataattca acaaacggat gactggactt tatgtaaaga taaatttatt taatct 356

<210> 53027
 <211> 471
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-043-Q1-K2-G8

 <400> 53027

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ggatcctaag gccaatgtga gctcttcgca gttctttgaa ttactgagtc acccaatcaa 120
agacttccat attgtggcca ttcattccaga tcacaattcg ttcattccttg ttcagcactg 180
gaaccagaaa ctggtatcat ataacatgga tactcaggaa ctgcatggtc tctgcactct 240
tggaagggc tatgtgatta ttaccccata tgttcctgt ttcttgaggt catcggttct 300
tgccaccaa cactgaggtt gttgtttctg gggacttctc tgcattgtca acaagagcct 360
gatcatcaa gtgtggggca aggtgatcta gtctgatggg gctttaatgt ccttttgtaa 420
tgctttgaga aagctngtta caggacaaca tgggtagttc tatgatatat c 471

<210> 53028

<211> 266

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K2-G9

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ttttccctcc gtatgtcctt tgctctttct gcatgtgttg ctaacgcgac aattttccct 120
caatgtcac aagctcctat agcttccctt cttcccccat acctccatc aatgatagct 180
tcagtatgtg aaaaccagc tcttcagccc tataggctcc aacaagcaat cgcagcaagc 240
aacatacctt tatcaccctt gttgtt 266

<210> 53029

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K2-H6

<400> 53029

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cctccggcgg cggcggcggc gctggcgacc ggggtgtctt tccggcgagt ctcccccta 120
gtaacaagaa aatatggatg tacctgttga tgaccctgtg gagaacctca ctggaagtcc 180
tagtaccctt ggcaatgagg aagaagccac tacttatgct aatgtgcaag atcagtccaa 240
ggaagaacca gaaaagcttt acgaggaacc caaagaccca atgcaagacg agttgggtaa 300

ccaagggcat gtgagcatga acaatgaaga tgtgggagggc cagaacaaag tggaccaagc 360
tacccccaca gagcacggcg aggaagctgg ggtgaagcaa catgatgc 408

<210> 53030
<211> 356
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-043-Q1-K2-H8

<400> 53030

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ttaagtgggg gtcggaaccc ggttaacggc ggcagtgccg caattaagaa ccggctttta 120
acgacacggt taaccggttt cccttcgggt ttttttcaag tggcttgccg ccttggttcc 180
ggtgcttcca caccaagcgg ggacccttca tatagggtgt gagactacca aaactcgaaa 240
atgaacaagg gaaagatttt taagctagcc aagggttca gaggaagggc gaaaaattgc 300
ataaggatag caagagagag ggtggagaaa ggcgtgcaat attcatatag ggatcg 356

<210> 53031
<211> 370
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-A1

<400> 53031

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agaggtgagg cgcggtgtcc gccgatctg ctctgccccg acgcagctgt tacgacctcc 120
tcagtctcag tcaggagcaa gatgggtgcc ggcggcagga tgaccgagaa ggagcgggag 180
aagcaggagc agctcgcccc agctaccggt ggcgcgcgca tgcagcggtc gccggtggag 240
aagcctccgt tcaactctgg tcagatcaag aaggccatcc cgccacactg ctctgagcgc 300
tcggtgctca agtccttctc gtacgtggtc caccacctgg tgatcgccgc ggcgctcctc 360
tacttcgcgc 370

<210> 53032

<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-A10

<400> 53032

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aagttgacaa tgccagttag aacgaagctt tttaaccata agcgacttat cagctcctta 120
cgaatccagc tcgctgtagc cctgcccagg agaagttcat caagctcctt gaaaacagcc 180
gatatgtacc tgtgaaacca ggcctttctg gattcatcct cctccgagac ctgcagccga 240
ctgatgctga agatcttgcg ctgaccgatg cccccacaac agtcgcatga agcaccggca 300
aactgcccc tgctgcaagc caacaagggc catgatcatc agccatggcc gttgacgatg 360
agccacagcc gtcacaacct tttagtaca cctcttgagc gaccgagcgt taccttttct 420
tattcgtttt ttttttgact ttttt 445

<210> 53033
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K2-F9

<400> 53033

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aggttccaga gccccctggc gctttgccgt catctctgct tggatacgag gcactgacag 120
gttccctgga tgattttgga tttagaagatt atcttaacat gcctcatgat tctgacagtt 180
tccgtcaacc tgacatgcac catggaatgg aggttcgcct tggtttgtcc aaggaccta 240
tctgtcctag cttcaattga ggcagtaatg taattctgct gcaagttcac ctctcagtc 300
agtacttcag tcaatagacc atattaagat ggtgaaatat gaaaactggc agcttgcatc 360
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<210> 53034
<211> 224
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-043-Q1-K2-E11

<400> 53034

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ccgggggttcg ggttcgtggg tgagcggatc gagatggcgg cgtcngatgt tgagtaccgc 120
tgcttcgtcg gcggcctcgc ctggggccacg gacgaccact cccttcacaa cgcctttagc 180
acctacggcg aggtcctcga gtccaagatc attctcgatc ggga 224

<210> 53035

<211> 339

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K2-E12

<400> 53035

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tccgcctttt ttataataaa aaggaggccc ccacaaaacc cttttttttc aaaaaaaaaa 120
aaaaaaaaaa attctcccat tctcttccc ccaacacccc gggaaaaaaaa attttttttt 180
ttttaccca aacacaaaaa aaacccttgt gtttaaacc aaacatttct ttttttctac 240
ccccccacac aaaaaacaaa cttttttata ttttttctc acacccacc taaaaaaaaa 300
aacaaaaaat ttctcccccc caaaaaaaaaa tcccccccc 339

<210> 53036

<211> 224

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K2-E3

<400> 53036

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agcctccagg taaagatact ttctgaacag aatatgggtg ctgaagctat tgatagctgt 120
acagttatgg ccgcttgga tggtgtgcca tctggagttt tgtgctaaca tgcattgtat 180
ttgacgctgc aatgtgtact agcaacagac ttggttttct tggt 224

<210> 53037
 <211> 489
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-043-Q1-K2-E4

 <400> 53037

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 gaccattatg agggcttaat ggatctatctt ggtaagaata gggagaaacg tcaagacggt 120
 gagaactcaa aaggtacctc gaagaaaaag gcgcgaacag aaccgccaaa ggagataactt 180
 caacgtactc cattaaatcg gaaggggtca gctcttgccg aaagttcaga taagacgggtg 240
 gacaaatgtg agatccatga tgagataaaa acaaatgtgg aacttgattt gtcagaatcg 300
 tgcagaactg ataatggcat tgttgccata cctgttcgtg cctattcata cggtaaaggt 360
 ttgccctatg ctctgaaaa ttggccacgt catggagaca tatggcactg gaaagttgga 420
 agcagggtt ctggagcagg ccattgggct gacaggtata ttatgccgcc atcccgtttt 480
 cgtggcgct 489

<210> 53038
 <211> 216
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-043-Q1-K2-E7

 <400> 53038

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 attattataa ataaaaagga aaataaaaat ttatgggggg tgtatgtctt ataggacgac 120
 cacttcctat cccagcacct gatctactgt atatggcatt ccaacagcaa gagacgtgtt 180
 tcgtaacctg cagaagaggg ggaaacttct gttaaa 216

<210> 53039
 <211> 297
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-043-Q1-K2-F11

<400> 53039

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cgtctggtgg tggatgaagg gagaaattcg tgagatctgt tccggatcaa gcgtgcgagc 180

tccggaatca ggggtttcac acatagcttc gtcgatttga atttgatgta ctaatggagt 240

ctaagggtgg caaaaagtct aacagtagtc ggtctatgat gtatgaaagc tcccttg 297

<210> 53040

<211> 294

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-043-Q1-K2-F12

<400> 53040

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cacccttatt caattctatt ctcccttncc ttttctctct tgctccattg tttaaacctg 180

gggagaccgg caaatttatt tcattttacc taactttaac ctttttgcca cttttcaaaa 240

cttttgcaaa ttccccatta tatccacttt tcccaatctt tctttttatt taaa 294

<210> 53041

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K2-F2

<400> 53041

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gacctgcgtg tgaggcctgg acgccacgtc cagctgacgg ttccgctgga gcagctgata 120

gaccggctgg tgaaggagaa cagggtggtg gccttcatca aaggatcaag gagcgctccc 180

cagtgcgggt tctcgagag ggtggtgggt atcctggaag cgcacgccgc ggatttcgtg 240

accgtggatg tgctcgacga ggagcacaac cacgggctga gagaaaccct caaggcttac 300

agcagctggc cgacgttccc tcaggtcttc gtcggagggg agctcgtggg aggctgcgat 360

atcatttcgt ccatggctga gagaggggag c 391

<210> 53042

<211> 325

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K2-F3

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tggaagggag tgaggccgtt cgtggagctg ggcgcggcga cggcgggtgt gtgctccctg 180

gacttcgagg actcactgga ggacgcctcc ttcacggcgt acccgcggaac cgcgtccctg 240

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<210> 53043

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K2-F4

<400> 53043

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gggtcgcgct ggttgccggg agctgggacg gaaagtactg ctgttggttcg cacggcgagg 120

cggcggcgga gaccggtcag aaggaatgtc ttcggcccaa atcgcgccgg cagatcatgt 180

gtgctatgtg cactgcagct tctgcaacac agttctcgcg gtgagtgtcc cggggaatag 240

catgctcaac atcgtgacag ttcggtgtgg aactgcgca aatctactgt cagtgaacct 300

gagagcactg atgcactcac tcccagaaca agatcatcag ctccaggaga acatcaaggt 360

ccatggcatc aacggcactt tgcacgatga tcatcagtac tgcggccatt tggatcagct 420

cggttcttct tcgtcgt 437

<210> 53044

<211> 381

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-043-Q1-K2-F7

 <400> 53044

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 gtggacaagg ccaggcgcaa gctccgagcc ctcacgcgcg agaagagctg cgccccgctc 180
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 ccattcggca cgatgaagca tcagtcggaa ttggctcacg gcgctaacgc gngngctggac 300
 atcgcggtgc ggctgctcga gcccatcaag gaggagtcc caatcctctc ttacgccgat 360
 ttctaccagc tcgcgggagt t 381

<210> 53045
 <211> 360
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-043-Q1-K2-F8

 <400> 53045

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 ctatgtcaag acatggttca accagcccgcc ccgcaagcag aggcgccgca tcgctcgtca 180
 aaagaaggct gtgaagatat tccccgccc gactgctggt cctctacgcc ccattgttca 240
 atgccagact ttaaagtaca acatgaagtc aagggtggg agaggcttta cccttgagga 300
 gctgaaggct gctggcatcc caaagaagct tgctccaacc attggtatct ctgttgatca 360

<210> 53046
 <211> 259
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-043-Q1-K2-C5

 <400> 53046

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 aaaaaaaaaa aaaaaataa aaggggggga aaaaaaaaaa tttttttaat atatagncca 120
 aaaaaaaaaa aaaaataatt ttttaactcca taaaactaaa acggccatgc tctaaataaa 180
 aaaaataaaa aatacccaac ctttctaaaa aaaaacaata aacaaatact aaaaaaaaaa 240
 tttataggga atccttttt 259

<210> 53047
 <211> 328
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-043-Q1-K2-C6

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 cccccctttt atagggtccc aaaatttcat tcccttcccc ccgggttaac aacttctttt 180
 ctgttttaaaa ccatgccaat aaaaaactca attttttaaa accacatccc tttaaaacca 240
 cctgcctaac caactaaaat ccccttacia atcaccttt ttaacaattt tccattataa 300
 ataaaaaatc caacccccct tttatttc 328

<210> 53048
 <211> 422
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-043-Q1-K2-C7

<400> 53048
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 tgccatagtg cgctactcat ggttgaagga ggatatagaa aatgtggtgg ttgtccattg 120
 caaagctggt aaggcaagga caggattgat gatctcgagt cttctactat ttctaaagtt 180
 ctttctact gctgaggagt ccattgaata ctataaccag aaaagatgtg tagatggaaa 240
 agggctgatt ctaccaagtc agattagata tgtgaagtat tttgagcgca tcttaactta 300

cttcaatggt gaaaatcagc caccaggag gtgtatgctt aggggggttc gtcttcatag 360
atgccctat tggattagc catcaattac agtctctaac cacaatggtg ttcttttttc 420
ta 422

<210> 53049

<211> 474

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K2-C8

<400> 53049

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agcgcagaca ggactcgtaa tttgattgtg aggtgcgcc ataatgtcat tcgaactgga 180
ctgcgcaaca tcagcatttc ttactcaagg atctcccttg ctgacattgc taagaagcta 240
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gatggcgcca ttgacgccac catagatcat gcaaatggct ggatgggtatc caaggaaact 360
ggtgatgtct actcaacaaa tgagccacaa attgcattca actccaggat tgcgttctgc 420
ctcaacatgc acaatgaagc ggtcaaggcg atgagattcc cccctaattc tcac 474

<210> 53050

<211> 505

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-043-Q1-K2-D1

<400> 53050

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ccaagcacc gggcgcgag ccggagccgg aggcctagta aatgaagacg ttcgatccgt 120
ggcccgtctt cttccgccgg gagtggaagc gcaattggcc cttcctcacg gngttcgcca 180
tcaccggctt catcatcact aagatgacgg ccaacttcac cgaggaggac ctcaagaact 240
ccaagttcgt ccaggagcac aagaagcgt gaccaaccag taatctatga catggacgcc 300
ggatggcact ggagagggga tgggtgtacgg tgtgtccga attgcctgtc tggacagcca 360

gttatgttat gctgtttgaa tgaaaaatta gtttcttttt cttcatctaa atgcgtgcag 420
 cctatgctcc atctgtaatg taataagagg caactgactt gatccaaaag ctaccagctt 480
 ctgattatga atgatacttc aagtt 505

<210> 53051
 <211> 60
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-043-Q1-K2-D10
 <400> 53051

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<210> 53052
 <211> 281
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-043-Q1-K2-D11
 <400> 53052

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 attcatcttc ggattgtcct cagcaccaat ccagtcattt tcgcaacgtt taccgcaaag 180
 accgctacct tgggcaccag ttctgtgatc cagttgaact ggcacgcacg cctgagttat 240
 caagcatcag tgggtgcgaag acagaaacgt ctattggtgc a 281

<210> 53053
 <211> 143
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-043-Q1-K2-D3
 <400> 53053

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 ggggggtttct tttacggggt cgaaaaacac ttttccgata aatcaatcta ataaaaaaca 120
 atcgatatat ttaatacatt aag 143

<210> 53054
<211> 480
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K2-D4

<400> 53054

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agatgaatga cgccgatgta tccaagcaga tccagcagat ggtgcggttc atccgccagg 180
aggccgacga gaaggccaac gagatctccg tctccgccga ggaggaattc aacattgaga 240
agttgcagct tgttgaagct gagaaaaaga agatcaggca agagtatgaa cgcaaagaga 300
agcaggttga agtacgcaag aaaattgagt actctatgca gttgaatgct tctcgcatca 360
aagttcttca agctcaggat gatctagtta acaaaatgaa agacgatgcc atgaaggaac 420
ttctccttgt cagccacaac caccatgaat acaagaacct ttgaaagac ctaatcattc 480

<210> 53055
<211> 347
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K2-D7

<400> 53055

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cgacaaagag gaaattaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaggggg ggccctttta 180
aaaaaatcaa acttaactaa cccttaattc caaataaaaa ctttttttaa agggcaacta 240
aaataaaatt aattgccctt ttttaaaaaa ctccgaaatt ggaaaaacct tgcgttaacc 300
aaattaaatc cttttaaaga aaatcccttt tttccaactt ggттаат 347

<210> 53056
<211> 313
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K2-D8

<400> 53056

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gggccttagg agaaggtcat gataattatt ttgtatctac catagtagtt gtttgatata 120
gacgcctctc tctctctctc tctctctctc tctctctctc tgttattact ttatatTTTT 180
gttactgtcc ttccatttga atctatagga tgggtcaaagt ggctgatgaa agaggagaaa 240
gaaacaaaac agttggtttc ttgttacttg taagtgggta aactgaaata caaatggatg 300
taagattgaa tga 313

<210> 53057

<211> 285

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K2-A7

<400> 53057

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cccatctcgc gggcatggga gacccacccc gcgcggggag cagccgggct cgagatcgca 120
cccgtcgcgg tgcgggcca agcgggagct gtccgcgtat attggcgcgc gacgaccac 180
gcgggggcgc tggaacctcg ggcacgcttc acgtacggcg ccgaccgagc gacccgcggg 240
gcgcaggcga gctcgcgcgc tcagtcgcgc gcgcgcgcgc cgctc 285

<210> 53058

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K2-A8

<400> 53058

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gatgctgtgg aggcaagcac tgtgaagcgt gttgcaaacc gtttcattct tgatcaggat 120
gttgctattg ctgcgatggg gccgatccaa ggacttccag actacaactg gttcagacgc 180
cggacctaca tgctccgtta ctagattaat cagccggtgt acccatgttt accgtctgca 240

aaagacaaga taaaatttgc ctcttttagc gtcagtatat taaggcctca gcactgcaca 300
 ttacgtgctg cgatggagga attttttgag aatttgtttt atttcttgtc gtgtccaaaa 360
 tccacaaatc tgtcaataat gataggcaag ttcgactgac gt 402

<210> 53059

<211> 429

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-043-Q1-K2-B10

<400> 53059

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 aaggaatgga ttatgaatga tctgcgcgca tacnaaccaa aaangaacag ttaaataagg 120
 gtttttgaga gttcagatga gatttcaacg gatctttctt agtgtatctc acaagtttca 180
 gatanttctt tcaaagaaag gagatacttt accatcgctt tatctggagg tcccctagtc 240
 agtttttttg ggaaactttg tgaatctcca tacaacaaga cacttgattt gtccaaattg 300
 tacatcttct ggtcttatga acgttctttg gcaaaaaacc attcatagag taactatatt 360
 ttaacaaaaa aaggattcct ctccaaggta cctattctta atgtccatgt ttactccata 420
 aattacaat 429

<210> 53060

<211> 367

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-043-Q1-K2-B7

<400> 53060

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 aatacaaaga aaaaccatnc tatacaacag taccctttat cttcgtaccg accagaatca 120
 aattgcaatg ttcaaagggtg ttccctttac tacatcagct ggcccatgta tatcttcgat 180
 tcacaacgga aatgttaagt gaccacctca ttagacatgg ttgcatacat tgacatcaaa 240
 cttatgcatg ctgtctgtgt accattttgt catacatcat gttttgcca tatttagcgt 300

tgcaaaattt gaacacagtt acactatctg taagcaattt tctactaatg gttggcccat 360
agtttgc 367

<210> 53061
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K2-C1

<400> 53061

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cgtggacgcc ggtgccgttc ccgccgacgg cgccttgcct ctggctgcac gacacgcact 120
cggttttctg gcgggggagga gacgcgtgga cggcggcgga gaacaaactg ttcgagaagg 180
cgctggcgca gatcgaccgt aacgcgcccc acaggtggga gaaggtggcg gaggtggtgc 240
gcacgaagac ggtcgacgac gtgaggaacc actaccacga cctggagaac gacgtcggct 300
tcatcgaggc cgggctcgtg ccgttccccg actacagcgg ctcggttccg tcgttcgggt 360
tcaccacga ggattgggac ggaggggttca agcgcggcta ctgccttaag cgcgcgcgc 419

<210> 53062
<211> 281
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-043-Q1-K2-C10

<400> 53062

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tgctgcccc aaccttaa attttctcc tcctctctaa caaacaacta tctttgtctt 120
cgcttcctcc cttcctgaat ttactaataa tatataacat ccatttactg ctaacaacca 180
tttctcaatg acatcttcat tactcctcct tcttctactg ctacctctcc ttttgacctt 240
ttaaataact cttattattg cttctcaact ctttcatttc a 281

<210> 53063
<211> 363
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-043-Q1-K1-G5

<400> 53063

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caagagtcga ctgaggaatg tntccaaagt gatcaaattt gggctacata tgatgatgaa 120

gatggaatgc ctcgttatta tgcatttatt cagaaagttc tttccttgaa accattcaag 180

ctcagaataa gctatctcac atcaagagca aatagtgaat ttgggccttt gaattggggtt 240

tcttctggct tcataaagaa ctgtggtgat ttcaggattg gtaaatatga aagctgtgat 300

atagtcaaca tgttctctca ccagatgaaa tgggataaag ggccgcgcgg gcttatcaaa 360

att 363

<210> 53064

<211> 95

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K1-G6

<400> 53064

caagcatcac cggcaggagc tctgggcagc gtgcgcacgt ggggtaccta tctcgctctg 60

ctagcctacg atggctgatc accaccgggg tgcga 95

<210> 53065

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K1-G7

<400> 53065

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tgttttgaat gtcaagtttt gatttcaaatt tttaaatctg tgtttaagct ctcaaattca 120

aacaaatgca gcaaacaaaa atataccagc atgagatgca aatacctaatt gttattagtt 180

aatttactat cctattttta gcaaatgcct ttacacatgc aactcctaca ctaaaaaata 240

ggcatttttg agaaaaatga tctctagtat attaaaaatcc ctaagagaga gcttataaac 300

atataattca acaaacggat gactggactt tatgtagaga tcattttatt ttaatctgta 360
ttaggaacat gtttattttg ggaaatgtaa cttcagaagt atggagattc ttt 413

<210> 53066
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K1-G8

<400> 53066

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ggatcctaaa gcacaatgtg agctcttcgc agttctttga attactgagt cacccaatca 120
aagacttcca tattgtggcc attcatccag atcacaattc gttcatcctt gttcagcact 180
ggaaccagaa actggtatca tataacatgg atactcagga actgcatggt ctctgcactc 240
ttggaaaggg ctatgtgatt attaccccat atgttccttg tttcttgag tcatcgggtc 300
ttgccaccaa aactgaggt tgttgtttct ggggacttct ctgcatgttc aacaagagcc 360
tgatcatcca agtgt 375

<210> 53067
<211> 354
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K1-G9

<400> 53067

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caatgctcac aagctcctat agcttccctt cttcccccat accttccatc aatgatagct 180
tcagtatgtg aaaaccagc tcttcagccc tataggctcc aacaagcaat cgcagcaagc 240
aacatacctt tatcaccctt gttgtttcaa caatcgccag ccctatcttt ggtgcagtca 300
ttggtacaaa ccatcagggc acagcagctg cagcaactcg tgctacctgt gatc 354

<210> 53068
<211> 332

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-043-Q1-K1-H10
 <400> 53068
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 ggcaagggta tccttgctgc tgatgagtc actggcacca ttggcaagcg cctttccagc 180
 atcaatgtcg agaacgttga ggagaaccgc cgtgccctcc gtgagctcct attctgctgc 240
 cctggtgctc tccagtacat cagcgggtgtg atcctcttcg aggagaccct gtaccagaag 300
 accaaggatg gcaagccttt tgttgatgtc ct 332

<210> 53069
 <211> 265
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-043-Q1-K1-H11
 <400> 53069
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 tgtcaactta gaaaccctgc cctcggactc tatttgctgt gtcttaatac atacgggtatc 180
 tttcagaact gccaaaacca gagcagcctt gtgatgtcta gaggagctct ccgctcagtg 240
 acggcacatg agtgtgcact ataga 265

<210> 53070
 <211> 357
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-043-Q1-K1-H6
 <400> 53070
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 ttttcggcg agtctcccc ctagtaacaa aaaaatatgg atgtacctgt tgatgaccct 120

gtggagaacc tcaactggaag tcctagtccc cttggcaatg aggaagaagc cactacttat 180
gctaattgtgc aagatcagtc caagggaaga accaagaaag ctttacgagg aacccaaaga 240
cccaatgcaa gacgagttgt gtaaccaagg gcatgtgagc atgaacaatg aagatgtggg 300
aggccagaac aaagtggacc aagctacccn cacagagcac ggcgaggaag ctgggggt 357

<210> 53071

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K1-H7

<400> 53071

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tcagagattg gtttttcttt aattttggag gtaaatacata cgcattattg aggtcccagt 180
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caccocggca gcatcggctc cattgattga agttctctgt tttgttaatt aaccctggtt 300
aagaaaaaaa gaaggcgtgt tcgccgtgtc ggaattcttt ccttcctccc ctagtgttta 360
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<210> 53072

<211> 359

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K1-H8

<400> 53072

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agcgacggca tcagcggttt cccctcccgc ttctctccag tcgcctcgcg ccctcgcttc 180
cggctctccg cacaccagcc ggtgacctc catatagggt gtgagactac caaaactcga 240
aatgaacaa gggaaagatt tttaagctag ccaagggtt cagaggaagg gcgaaaaatt 300
gcataaggat agcaagagag aggggtggaga aggcgctgca atattcatat agggatcga 359

<210> 53073
 <211> 261
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-043-Q1-K1-H9

 <400> 53073

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 ggagctgtac gccaacgagg tgcccaagac cgcgggagaac ttccgcgcgc tgtgcacggg 180
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 cgtcatcccc gagttcatgt g 261

<210> 53074
 <211> 447
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-043-Q1-K2-A1

 <400> 53074

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 gactcacttg tggagaagtt tgttacacct gaatcatctc anggagagtt ggcaagtcta 120
 gttgacaaaag aagaaatata ttccatattt ttagagtttt tggatctctt tggatgatgca 180
 aagtcaatca ggaaagcttc aactcggcat acaacttttt tttcatgtaa gagaagcatt 240
 ctgccatcaa agaaacggaa ggctgatgat gctgttgtgt cagacaggga caagtttgct 300
 aaaactgggt ctgttcagtc agccacagga actgatccaa atgcttccaa tccttctgtt 360
 tggcctgcga cttctgaaac atctggacat caatggggag cttcttatgc tcagcaggct 420
 gcatatcctg catatggaac ttatgac 447

<210> 53075
 <211> 276
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-043-Q1-K2-A11

<400> 53075

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ccatctcttc ggaacagcaa agctgtgcag caatggagaa gtataacagc ggcactcaat 180

ttgcaccatt gagagagact ccgtttgccc tcccgggggc tcttggtagt tcaagctcat 240

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<210> 53076

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K2-A3

<400> 53076

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agcatataga gtaagattca cccctcatcc acatgctggt gataattggt gtatctatcc 120

gagctatgac tatgctcatt gcatgggtga ttctcttgaa aacatcacgc attcgctgtg 180

cacacttgag tttgacatac gccgcccttc atactactgg ctacttggtg ccttggtgct 240

ttatcaacca tatgtgtggg aatattcgag gctaaacata tcaaatactg tgatgtctaa 300

aagaaagttg aatcgacttg tgacagagaa ctgggtagat ggggtgggatg atccccgctt 360

gttgacactg gctggactcc ggcggcgggg agtatcatca accgcaataa attcctttat 420

ccgtggaatc gggataacaa gaagtgacaa cagcttaa 458

<210> 53077

<211> 333

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-043-Q1-K1-G4

<400> 53077

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gtattgagtt acgtatagtg cgatagtatc acattctttt ggcttgtgtc tacagttcca 180
 gtaggagtta ggatagaaca caggatgagt ccatagccct ttttttgcac gttcataatg 240
 tactcataat gtacctggtg ggtgtactgt gtacatatta gatatgactt caggatgtna 300
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<210> 53078

<211> 353

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K1-E6

<400> 53078

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 ctttgttctt tgcttctgga acttgggcgc accacaatgc tcctgcgtat aaatccgtca 180
 tcttcataag cggttgtaaa ctctgaacca gctctttata tatctccatc agggccaaat 240
 cctcttatgg ttcaacctgt tccatttcca ggaaggctctg tccaaatggg tactttgttt 300
 tctagtctgg gttcacaagg atctgttcta catccgagag atgtttatat cca 353

<210> 53079

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K1-F1

<400> 53079

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 ttggacagaa gaagaagaag ctgttttgag ggagagggat ggcaaaattc actccacaga 120
 ataatgcgca aattccatgg attctgatac tagaacatgg ccgtggtgtg tttcacagga 180
 cgcgccctgcc atctgatttg agggtaagt ggaggagcat gcagaggaag aagtgggcag 240
 gctactgatac ttacacgcc ccgcgcacgt agctgttgtg tctcatgcta aattactaac 300
 cataccttca tttctctgtg tccatctgca gatctgatgc cgttgacatg gaacactgac 360
 gtggtacttg tacat 375

<210> 53080
 <211> 413
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-043-Q1-K1-F11

 <400> 53080

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 cgtctggtgg tgggtgaaggg gagaaattcg tgagatctgt tccggatcag gcgtgcgagc 180
 tcgggaatca ggggtttcac acatagcttc gtcgatttga atttgatgta ctaatggagt 240
 ctaaggggtg caaaaagtct agcagtagtc gttctatgat gtatgaagct ccccttggct 300
 acagcattga ggacgttcga cctgccggag gcgtgaagaa gttccagtct gctgcttact 360
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<210> 53081
 <211> 72
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-043-Q1-K1-F12

 <400> 53081

 aaaaaaaaa caaatagcaa acaaaaaaaaa aaaaaaaaaa aaaaaaaaag aacaaaaaat 60
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<210> 53082
 <211> 379
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-043-Q1-K1-F5

 <400> 53082

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 acaaaatctt gcacccaaan cacttctntt gttctcactt ctaaacttct tcttatacct 120

ttcatatata atgtcttctt cccaaatctc gccttcatat catgttttct atttgactg 180
catcttcttc aacacatttc tcaacttttaa tttccccttt aatatcattc tcaacatctt 240
tacagtttct tttttacact tctcatatct actttcattg aacctgatat cacttattca 300
ctcactccca taacaatatc atcatctcca atataacatc aatttccatt tcatcatctt 360
cactttcacg attatcatc 379

<210> 53083

<211> 209

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K1-F7

<400> 53083

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tcgcaggctg cagccatggc gaagaactac ccgaccgtga gcgccgagta cagcgaggct 120
gtggacaagg ccaggcgcaa gctccgagcc ctattggcca aaaaaagctg ggcccggtta 180
atgctcggct tgggggtggaa ctccggggg 209

<210> 53084

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K1-F8

<400> 53084

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gaaatgggtga ggcacatcaa cgtcatcccc aacgggcact tcaagaagca ctggcagaac 120
tatgtcaaga catggttcaa ccagcccgcc cgcaagcaga ggcgccgcat cgctcgtcaa 180
aagaaggctg tgaagatatt cccccgccg actgctggtc ctctacgcc cattgttcaa 240
tgccagactt taaagtacaa catgaagtca agggctggga gaggctttac cttgaggag 300
ctgaaggctg ctggcatccc aaagaagcct tgctccaacc attggtatct ctgttgatca 360
ccggcgcaag aacaaatccc ttgagggact gcaggccaat gtccagaggc ttaagacata 420
c 421

<210> 53085
 <211> 301
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-043-Q1-K1-G10

 <400> 53085

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 aaaataaaaaa ttcgctggcc ctctttttac aacctaatta ctgtaaaaac cctgtcaata 180
 ccaaacttat tctttttgca ccccataatt catttcacta cctctcgta taaaaaatag 240
 gcccttaaaa aacctttcttc ccaacaaatt tacagccttt atggaaaatc ccactttccc 300
 t 301

<210> 53086
 <211> 305
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-043-Q1-K1-G11

 <400> 53086

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 tcgtccgca cgccgcgggc tacggcgctg ccctcgccga cgcgctccgt ccgcccggcg 180
 ggctaactag ggagtcctcg cccttcgagc tcccccttgg aaagtacggc ctcgacggag 240
 agaaggcgtg cgccgagctc ctgagctttt ccgattccag tggctctcca caggtagacca 300
 ttttt 305

<210> 53087
 <211> 210
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-043-Q1-K1-G12

 <400> 53087

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 gtgggtgagc ggatcgagat ggccggcgtcg gatgttgagt accgctgctt cgtcggcggc 120
 ctcgcctggg ccacggacga ccactccctc cacaacgcct tcagcaccta cggcgaggtc 180
 ctcgagtcga agatcatcct cgatcgggag 210

<210> 53088

<211> 134

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K1-G2

<400> 53088

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 tattttccca atactgtttg catctcgaa cagattgttc aatatcccaa ctcgacacat 120
 acgtcatatt cggc 134

<210> 53089

<211> 432

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-043-Q1-K1-G3

<400> 53089

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 cgctccccc acggccgccc ccgagacgga cgcgctcaac ggccggcgtcg cggaggagga 180
 gcagggtccc atcaccacc ccgcaaagtc ctacgtcacg ctcgccgacg acaacccccgc 240
 tcctaacggc ggcgctcgtga aagaggagga gggcggtgcc cacaccaccg cgaagtccta 300
 cgcagctgtc gccgcccag ccgagatcga ggacctncgc gccgccaagc tcgacctgga 360
 ggagaagctc gctgaggccc gccgtgagaa caagtccctc gccgaggaga cgcaccgcag 420
 cgaggggatc tt 432

<210> 53090

<211> 464

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-043-Q1-K1-E5

 <400> 53090

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 actgattctg caagacgaag ggacattcaa agtagtgcag ttgcacggg ttctctatatt 120
 cagaaccttg gttctttgct tctggaactt gggcgcacca caatgctcct gcgtataaat 180
 ccgtcatctt cagaagcggg tgtaaaactct ggaccagctc tttatatatc tccatcaggg 240
 ccaaatcctc ttatgggttca acctgttcca tttccaggaa ggtctgtcca aatgggtact 300
 ttgttttcta gtctgggttc acaaggatct gttctacatc cgagagatgt tgatatccat 360
 gtccgcacaa gtgggtccgt gcctggagcc agtactaacc caagtgattc agctgggtgcg 420
 caagcgcatc aaaatgtgaa taggccagga gatgcttgcg atgc 464

<210> 53091
 <211> 468
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-043-Q1-K1-C8

 <400> 53091

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 agcgcagaca ggactcgtaa tttgattgtg aggctgcgcc ataatgtcat tcgaactgga 180
 ctgcgcaaca tcagcatttc ttactcaagg atctcccttg ctgacattgc taagaagcta 240
 agactagact ctgagaacct tattgctgat gcggagagca ttgtagccaa ggccataaga 300
 gatggcgcca ttgacgccac catagatcat gcaaattggc ggatgggtatc caaggaaact 360
 ggtgatgtct actcaacaaa tgagccacaa attgcattca actccaggat tgcgttctgc 420
 ctcaacatgc acaatgaggc ggtcaaagcc atgagattcc cccctaatt 468

<210> 53092
 <211> 348
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K1-C9

<400> 53092

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gaaaaagggtg aggggaactta gtcagtcacg tgcagtgaag gctattcaag gcagatttca 120
aacaccacgt agcaaagtca tttggcagac agctattgct tttgtcttgc ttggagtgc 180
tacccttgct ttccctaccg aagaagggcc aaccctccag gtggccatct cttgtgcagc 240
aaatatctat ttcatttatc agaggggtcaa aagtggatgg cgagcattct tttatgggtt 300
tggttctttc tttgttctct ggttccttgg caccttcttg atggtatc 348

<210> 53093

<211> 73

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K1-D10

<400> 53093

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gttctcacac gcc 73

<210> 53094

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K1-D11

<400> 53094

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acaaggggca ggtgctacgt acttcacca gaccactaaa aggcagtga gcataggct 120
attcatcttc ggattgtcct cagcaccaat ccagtcattt tcgcaacgtt taccgcaaag 180
accgctacct tgggcaccag ttctgtgatc cagttgaact ggcacgacg cctgagttat 240
caagcatcag tgggtgcgaag acagagacgt ctattggtgc atcagtgagg acaagctcat 300
ctcctgaaga ggtcgatgga tcgggcgaac tttcagcctc tgtcagcaac gcaagtgcg 360
aagagagggga atgggtagaa gaggacgagc ctggcggtga tattactatt cgagc 415

<210> 53095
 <211> 491
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-043-Q1-K1-D6

 <400> 53095

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 gtcctcaacg tcgtgcagat gatcgcggtg cgggtagacc tgtaccagga cgccatcatg 120
 tcgccgttct ggaacttcaa cgcccacagc gccatgtacg gcatcagggg cagtgcgaagg 180
 gtccaggtcg ccagcgacaa cgggaccacg gtgttcgacg acgtgctccg tgcggtgcag 240
 ctgctcatcg taccctcagg ctacctcgtc gccaccaagg cgcagggaga aggcttccag 300
 tacatcgctt tcgagacgaa ccctgacacc atggtcagcc acgtcgccgg gaagaactcc 360
 gtctgagcgc acttgccggc cgnctcatc gccagctcgt atgccatctc catggaggaa 420
 gctgcagagc tcaagaacgg tatgaagcat gagctggctg tgcttactcc tgctggcagt 480
 ggcagctacc a 491

<210> 53096
 <211> 335
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-043-Q1-K1-D7

 <400> 53096

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 cgacagggag gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaagggg gggcccgttt 180
 aaaaaaacia aagttaacta acccttgaat caaagtaaaa acttttttaa aagggaaca 240
 aaaataaaat aaatggcccg cgttttaaaa acttggaac tgaaaaaacc cggggttaac 300
 aaaattaaat cgctttgaaa aaaatccctt tttcc 335

<210> 53097

<211> 353
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-043-Q1-K1-D8

<400> 53097

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gggcctgagg gtaaggatcat gataattatt ttgtatctac catagtagtt gtttgatatc 120
gacgcctctc tctctctctc tctctctctc tctctctctc tggtattact ttatatTTTT 180
gttactgtcc ttccatttga atctatagga tgggtcaaagt ggctgatgaa agaggagaaa 240
gaaacaaaac agttgggtttc ttgttacttg taagtgggta aactgaaata caaatggatg 300
taagattgaa tganaaaaaa acaantacaa naaatacaaa anaatataat taa 353

<210> 53098
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K1-D9

<400> 53098

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tagagcggcg gctgcagaga aaagattcca aaaaggatgg aatacactca ggaagaagg 120
gcgttcatt caacacgagt tgcgtgagat tagtgatatt gaaaaccaag cagtaggtct 180
gaagggaatt cttgatcagc ttcccagagc acatgcatct gaatttcggt cgaagatgtc 240
tggcctagct tctcagggtta agaaggagaa gcgagtgtc aacgccgccc tcacgaagat 300
tgtgaactac ggtgtcccca tctgactgcc actccagcca gttgttctga aggtccattg 360
tattgtatca aatttttgtg aaagaagaca tgttcgatgt gt 402

<210> 53099
<211> 236
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K1-E12

<400> 53099

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 taatactttt tcttactca ctccacaact tttttatttt tttctttaag aaccccaaaa 120
 ccaaaatcat cctcgatcgg taaacgcaaa aatttttttt tttttagttc gggaccttaa 180
 tacacacacc atttttatttt tttccccctc gcccgcataa aaaaaaaaaa acaaaa 236

<210> 53100
 <211> 374
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K1-C7

<400> 53100

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 tgccagagtg cgctactcat ggttgaagga ggatatagaa aatgtggtgg ttgtccattg 120
 caaagctggt aaggcaagga caggattgat gatctcgagt cttctactat ttctaaagtt 180
 ctttcctact gctgaggagt ccattgaata ctataaccag aaaagatgtg tagatggaaa 240
 agggctgatt ctaccaagtc agattagata tgtgaagtat tttgagcgca tcttaactta 300
 cttcaatggt gaaaatcagc caccaggag gtgtatgctt aggggggttc gtcttcatag 360
 atgcccttat tgga 374

<210> 53101
 <211> 179
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K1-B1

<400> 53101

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 gagacactcg gggggctctt tgacacacgc ctgtcgtatg atcgtcaca tacgtcat 179

<210> 53102
 <211> 281
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-043-Q1-K1-B10

<400> 53102

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gaagcaataa cttgatattg ggttctaaac caaagaaaga antgggtata aaatcatctg 120
ccacatacna nccaaaaaag aacaatgaaa taaagggtttt tgaaaattca aattaaattt 180
caacggatct ttcttaatat atctcacaaa tttcagtatt ttctttcaaa aaaaagggat 240
acttttccat ccccttatct tgagggtccc taatcaattt t 281

<210> 53103
<211> 258
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K1-B12

<400> 53103

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gcttcaagca acacccgaag cggcaacaac caccaccacc accaccaccg gacctggctg 180
agcgaccctt tggcttccca ctccactgaa gcaaggcgag agagagtaaa gaagaggagg 240
agaagccatg gcgagcga 258

<210> 53104
<211> 304
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-043-Q1-K1-B3

<400> 53104

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cccacgcgtg cncggcatta aaacttattg ttgaaaaaaa aaaacaaaac aaaaaaaaaa 120
aaaaaacaaa aacacaaaaa aaaaaaaaaa aaacaatcct ggacacaaaa caaaaaggct 180
aaaccaccac gcactactat accgggcgcg aactcaaaaa aatccaaacc tacaatcgcg 240

ctgatggcaa atcatacttt ttgtatgggt cgctaaaat taaatcacct gcccccttt 300
 taaa 304

<210> 53105
 <211> 294
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K1-B5

<400> 53105

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 gcaatgccaa ggtgcagttc accaatgagc ccaacaacct ctacaatgta cactcctaca 180
 agtactctgg cttagcaaac aagaaaactg taacgatcca gccagctgct ggaaaggact 240
 cggctgtggt cctctctact accaagacca agaagcagaa cacacccgag aagc 294

<210> 53106
 <211> 430
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K1-B6

<400> 53106

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 aacaatcgcc agccctatct ttggtgcagt cattggtaca aaccatcagg gcacaacagc 180
 tgcagcaact cgtgctacct ctgatcaacc aagtagctct ggcaaacctt tctccctact 240
 ctcagcaaca acaatttctt ccattcaacc aactgtctac actgaacctt gctgcttatt 300
 tgcagcaaca actattacca tttagccagc tagctactgc ctactctcag caacaacaac 360
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 tactaccatt 430

<210> 53107
 <211> 353

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-043-Q1-K1-C1
 <400> 53107
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 tgaggagacg cgtggacggc ggcggagaac aaactgttcg agaaggcgct ggcgcataatc 180
 gaccgtaacg cgcccgcacg gtggggagaag gtggcggagg tggcgcgcac gaagacggtc 240
 gacgacgtga ggaaccacta ccacgacctg gagaacgacg tcggcttcat cgaggccggg 300
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<210> 53108
 <211> 180
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-043-Q1-K1-C10
 <400> 53108
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 gccactcaaa aaaaaaccaa gttacttac acattcatgc tcccctccta acctttctat 120
 agtatcccct aaactcaact tactatcctt atttttaaaa caactatact tttaaaaccc 180

<210> 53109
 <211> 387
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-043-Q1-K1-C12
 <400> 53109
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 ttatctcggc aaggaacaga cacaggacag gatcatggag ttccttcacg atgcttgctc 180
 ccaatcattc tcctttgaac agaagtgtgt cgagctgatg gactcttatg cgactctcct 240
 gtttgccaag atcacggaga tcagaccgga agcgttctgc aaacggtatg gcctgtgcag 300

ggacacggct cttctctccg gtgtgggaag tgacagcacg tgtgtgttct gccaccatct 360
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<210> 53110
<211> 405
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-043-Q1-K1-C3

<400> 53110

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gctcctctct caccttggca agctctccca tggcgtctcc cctcctcta cggcagtaag 180
gaccgagaga tgatgatcga gccagtgatg tgggtgtaac aacaagggtgc agttggtgga 240
cgtactgaag gatgatggac ttaaccagtg gatgctcgcc gagcaagtac ctcccccaac 300
aaacactatc taagtgttaa attaaaagta ctctctaaga tgtttggttg atggtgtgac 360
ttggcctnca tccctgccac cgggatagac ggctcgagtgg gttac 405

<210> 53111
<211> 345
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-043-Q1-K1-C4

<400> 53111

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gttctccggg gttcgggttc gtgggtgagc ggatcgagat ggcggcgctn gatgttgagt 120
cccgtctgct cntcngcggc ctgcctggg ccacggacga ccaactccct cacaacgcct 180
tcagcaccta cggcgaggtc ctcgagtcca agatcatcct cgatcgggag acgcagaggt 240
cccgcggctt cggcttcgtc accttctcca cggaggaggc gatgcggaac gccatcgagg 300
gcatgaacgg caaggagctg gacggccgca acatcacctg caacg 345

<210> 53112
<211> 319
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-043-Q1-K1-C5

<400> 53112

cacgtatatt catttcttgg tcacatcccc gaacaatgtg aaggcggtta tcagatagat 60
gacgatgaag aagaacaact ataataagat ttgccctagc ctgtgttctc agttatctct 120
aanaaaaaaa aagaacacta aatacacaac accataaaaa cataaaagca aagacctcaa 180
gtacaaaatc atactaaatc gggatacgca gaggtaccgc cgattcggtt tcgccacctt 240
aattcacaga agatgogatg cggaacacca tctatgtcat ggacggccct gagctataca 300
accgtaacat caccgtaaa 319

<210> 53113
<211> 134
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K2-F10

<400> 53113

taaatcactt acatatataa aattttcata actttctatc atacatctac tctaatatgt 60
taatgtgtat ttttagatag cctgataatt actcttatac atattttaat atcttaactc 120
cttcatcaat cttt 134

<210> 53114
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K2-F12

<400> 53114

cggacgcgtg ggtaaattct gattctgagg gtgctggcac tcgatcatatc agctaccgcg 60
tatgttgagc tagttattgc tagggtaaaa ttattttatt gaattttaat ttcttagccc 120
tgcgcaatct ttaggttggt atgcaaactg gtgatgctga gctggaaatg cgagggcgct 180

gcagtgctgg tcagaagttt cttgcttctc ttataatcag actagcactt gcggaaactt 240
tctgcctgaa ctgcggtata ttggcttttg atgagccaac tacgaatcta gatgggccaa 300
atgcagagag tcttgctgct gcgctgttga gaataatgga agccaggaaa gggcaggaga 360
acttccagtt gattgtaatc actcatgatg agagatttgc ccatcttatac ggtcaaaggc 420
agcttgctga gaagtactat cga 443

<210> 53115
<211> 146
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K2-F9

<400> 53115

tcccactcat actaaaataa caaaatttat gtatctatag aatcacaaat caatggtgaa 60
aggggggttct tataacagaa taatactcac atatacatat attcaaattt aattcattaa 120
aattgtgcaa tcttaaattt aattat 146

<210> 53116
<211> 345
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K2-G10

<400> 53116

aatgatcacc cttccactag agaaaatggc aaccagagta gctgggtccc tctgcgtagc 60
tgactgggct tggggaggag atgattgta gcagcatgaa gaagtatgaa gatagagcag 120
tagaactagc gctgaatccg gtgaagcttc aagcgctgac taacaagctc aaggaagttc 180
gtatgacctg cccgttgttt gatacagctc gatgggtgag caaccttgaa agggcatact 240
acaagatgtg gaacctttac tgctccagtc gccaccogga gccattcaag gtggtagagg 300
atgacaatga gtccccattt gaccgctaac gagatctcat cagca 345

<210> 53117
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K2-G12

<400> 53117

gttctatatc tgctggagtt ggtctactac atttttgtcc caccatttca aattttaaga 60
tgattggctt ttctagatac attgcttcaa ctattgtatg tcgaagtgca tagcaaaatc 120
aatgtatcta gaaaaactaa aacgtcttaa aatggagggga gtattattat tcagaggggtg 180
ccgtggggga gtgggactat cctaaacgag tgaaataaca atattacatt tgatgccttg 240
ttatagcagt atgcaatata ttagtatact catagttgga gtagcgaacc atcttagagt 300
gagaaaactg tagccagcag aacagcattg tctacaaaga tgacaatttt gtttagctgt 360
gctccttttt tgtacctttt aagttgagac ctgatgc 397

<210> 53118

<211> 346

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K2-G9

<400> 53118

cccacgcgtc cgggtgaagt tgctccatga ggcagcgggt cacgtggtga cggtggagct 60
ggagaccggc gaagtgtacc gggggtcatt ggtcgagtgc gaggataact ggaattgccca 120
gctcgagaac ataaccttca ctgccaagga tgggaaggtt tcgcagctgg agcacgtctt 180
catcagagga agcagagtga gatttatgat tatacctgat atgctcaaga acgctcccat 240
gttcaagcgc ttggaagcga ggattaaggg caaaggatca gctattggag ttggtcgtgg 300
acgtgctggt gcaatgcgtg ctcggtctgc ttgtggtcga ggtggt 346

<210> 53119

<211> 314

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K2-H10

<400> 53119

gagaagctgg cctttgtggc cctagactac gagcaggagc tggagaccgc taagagcagc 60
tcctccgtcg agaagagcta cgagctgccc gatgggcagg tcatcacgat cggcgcgagg 120

aggttcagat gccacagaggt gcttttgcag cgcgcgctga tcgggatgga agctcccggc 180
 atccacgaga ccacctacaa ctcgatcatg aaatgtgacg ttgatatcag gaaggacctg 240
 tacgggaaca tcgtcctcag tggagggacg accatgttcc ctggcatcgc tgacaggatg 300
 agcaaggaga ttac 314

<210> 53120
 <211> 410
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K2-H11

<400> 53120

cccacgcgtc cgcaagaacg tgcccatgct gaaggcaact gcctcaagat tgtttggccc 60
 tgtatttgat tggatagaaa catgggaaat gatatcaaga cttaagtatc ttggaactat 120
 gcttttcctg cataattttc agcaggcttt tacatgggtcc cttaagattg tgggtgctgc 180
 taagtctgct cttagtgttt tgacaaagcc aattgcgggga ccaattctgg aggtttttga 240
 acttacgatg ccaatttgga acctttgtgc tgagacagta ggatatctga gttcagttgt 300
 catgttatct gtagaagtgt cttggagtgt agttattgat acagtggaga tgattgtctg 360
 gccattttgg tttggcttca gtactatggt tagcattgtg aattcaattc 410

<210> 53121
 <211> 238
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K2-H9

<400> 53121

cgactggggtt gctcgtgaag ttttcaacat tgagagtgat caaatcctta gctgcttgct 60
 tttgtctctc tattttctcc ttgtgtattt ttaagcggtt atccatgaac aaagtatcgg 120
 tactagggta ctactaaacc aaggatttta ggctgtttgg ctgaggttta aaaaaaatac 180
 ttactatact caaattaaaa ggccatgaac aaattgcaca tttaatcatt gagggtat 238

<210> 53122
 <211> 424
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-043-Q1-K1-A10

<400> 53122

cagacgcgtg ggcggacgcg tgggttttgg tggactttta ctctccatgg gccttattgg 60
atttctcttg gggaggagcc ctgcgagtct tacctttggc gttgcacctg gccttgccat 120
attggccctg gctgtactta gcctcaatgt ctggaggagc gggaagtcca gcttaccgtt 180
catactggcg caagcaggca ttgccgtgc cgtagcatgg aagcacggcc aggcgtacac 240
cactacgagg aagctgcttc cgtggggatt ctacgtcgcg ctgagtgccg caatgatctg 300
cttctactcc tacgttcttc ttgccggagg gaatccgcct cctaagaagg cgaaggcgaa 360
ngcgaaggct gctgcttgat ttgatgttga aggcattcac cggagcgtct cataattgca 420
ctac 424

<210> 53123

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K1-A12

<400> 53123

cccacgcgtc cgcggaagc ttccgactcc ataccccgca cagagcgcct ccctgcagat 60
gacctcggct gtggtggagc gcgtaaccaa cgacgaccgg agcgtatcct cgttgcttga 120
tccaacgctg ggtggagacc acagggaaga cgagctagcg gtcacggcg aggtgatccg 180
ggcctgcatg cagagcgacc cgaggcgaat gccgagcatg agggaggtcg ccgccaggct 240
gagggaggcc gtgggtatct cgccggtcgc tgcgacgccg aggctgtctc cgctctggtg 300
ggccgagctg gaggtccttt ccgccgcgga agcaagctaa taatagtggg cgagaggaca 360
ggacaggaac agggcatgat gatgtcgcgc aatctgacca gtttgttctc aagaaaaaaa 420
agccttgcat ccctttgtgc atgctgtaaa tgtgaatgt 459

<210> 53124

<211> 305

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K2-E12

<400> 53124

cccacgcgtc cgcggaacgcg tggtcggact cgtggggacg catcatcagg ggaagatgca 60
ggcgcgggccc gacccggaga aggacctggg catcgtattc tccacgttcg accacgacgg 120
cgacgggttc atcacggcag tcgagctcga ggagtcgctg cgccgactcg gcatcgcagt 180
gtccgcccgc gagggcgcgg ccatggtcac gcgcgtcgac tctaacagcg acaggctcat 240
cgacatccac tagttccgcg agctctacga ctccataccc aagaagagga tgcaccagca 300
ccccg 305

<210> 53125

<211> 277

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-H7

<400> 53125

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaagaaaa aaaaaaaaaa 120
aaataaaaaa aaaaaaaaaa aaaaaaaaaa aaataaaaaa aaaaaatgaa gaaacatcat 180
tttattagcc tagcagtaaa tccctaataa cgggagataa cgtaaaaatt atgagggttaa 240
gaacgatcgc gcttatcaac aatttgcgca gtttgaa 277

<210> 53126

<211> 273

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K2-A10

<400> 53126

cggcaaggag ctgcacggcc gtaacatcac cgtaaccag gccagtcac gtggcgggtg 60
cggtggcggc ggtggctacg gcggcggtcg cggcggcggc ggcggttatg gtggcgggcg 120
ccgtgacggc gggttatggcg gcggtggcgg ctacggcggt cggcgcggaag gtggcggcgg 180
cggctacgga ggcggtggcg gctacggcgg tcggcgcgag ggtggcgggtg gcggctacgg 240

cggcggtggc ggccggcggt ggagggactg atg

273

<210> 53127

<211> 435

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-042-Q1-K2-A12

<400> 53127

cccacgcgtt cgcctacgtt gagcaccaga aggccgtcac tatccgcaac gacgtcaacc 60

ttaagaagga gacgcttagg atcgagcctg atgaagagtg ccctggccac ttntcgttg 120

ccttcacctt tgacgccacg gtcgctggca gcatgactgt ttacttggtt gcaaaggaag 180

agctcaactg caatctaaca gcagtgaaag aagacctaat gaagcccgtt actggtagct 240

tcaaagaggg tctgggtcaa aaattcaggc aaccttcagg aacagggatt gacttttcaa 300

tggttgagga atcagattat taaagcaggg ggacatggat ggatatccac ttgcagttaa 360

agctgaaaca acattgcttg ttgatcacc accagaaggg gatgaccaa agatgaaaac 420

tcctaactca cagat 435

<210> 53128

<211> 355

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-042-Q1-K2-A9

<400> 53128

gagcgcggcg cgcgagaggg agaacgacca ggaggggagg agatcgatcg atcgatcgat 60

cgagatagat ggctttcctc aacatggagc agcagacctg ggccttcacc ttcggtatcc 120

taggtaacat aatctcgtg atggtgttcc tttcgcgct gccgacgttc taccgctgtg 180

accgcaagaa gtcgacggag gggttccagt cgaccccgta cgtggtgacg ctgttcagct 240

gcatgctgtg gatcttctac gcgctgctca agtccggcgc cgagctgctg gtgaccatca 300

aacgcgtcng gtgcgtgatc gaggcggcgt accttgccgc gtacctggtg tacgc 355

<210> 53129
<211> 184
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K2-B12

<400> 53129

gcgagagaga tccggagcag ccgcagtccc accgaccccg ccgccggtcg cctcccatct 60
cctcgccgct gcctctcggt tctcttttca ataatacaaga tgagccgtgg tggtagtgcc 120
ggtgggtggc aaagttctct gggttatctc tttggaaacg gtgagccccc caaaccagca 180
gtgg 184

<210> 53130
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K2-C10

<400> 53130

cccacgcgtc cgggacgcct tccacggcga caaggaccac ggcggcgctc acgacggcac 60
caccgtcgct ctctgggagt gggccaaggg cgacaaccag cgctggaaga tcctgccctg 120
gtgaacgtga acagagacga gctagatgaa tccaaggaac cttacctagc tgctgccgcc 180
gccgcctaata tgcctctcct ccgctctagc tggttatctgt ctgtgtcttc gcgtcctcgg 240
ttcctgaatg gacgaataat atatagcatg catgtacggc tagcgaccat gtctgaatga 300
catcttcggt gctgctgctg ctgctactgc tacctgtccg tttgggggtc taaaagactc 360
tgatgagtgg ttctgaatgt ctgcatttca agtttgctgt gtgatgttaa tgtaccgtgc 420
gtaccagagc t 431

<210> 53131
<211> 310
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K2-C11

<400> 53131

gagagcatca acaacaagct gcagctgctg atgaagagcg gcaagtacac cctgggctac 60

gagaccgtcc tcaagacgct gcgcaactcc aagggaagc tgatcatcat cgcaaacaac 120
 tgccctgcac ttaggaagtc tgagattgag tactacgcca tgctggccaa agttagtgtg 180
 caccatttcc acggaaacaa tgttgatctt ggcactgcct ggggcaagta ctacaggggtg 240
 tgctgcctca gtatcatcga ccaggtgac tcggacatta tcagtaccac ccctggcacc 300
 cagtgaacca 310

<210> 53132
 <211> 105
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K2-C12

<400> 53132
 gagagcatta acaacaaacc tgcaactgct gctgaagagc ggcaagtaca cactatgcta 60
 cgagaccttt cttatgacac tgggcaactg caaatgacag ctgat 105

<210> 53133
 <211> 246
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K2-C9

<400> 53133
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 caccctgggc tactagaccg ttgttaaaac tctgcgcaac ttcaaggtaa agctgatcat 120
 catcgcgaaac atctgtcctt cacttatgaa gtctgagatt gagtactaca ccatgctggc 180
 caaagttagt gtgcaccatt ttcaccggaa acaatgttga tcttggcact gtctgctgca 240
 agttct 246

<210> 53134
 <211> 248
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K2-D10

<400> 53134

gtcaccaaat cattccagtc cctacatgaa gcatacaaag ggaaaattgt tgggcttgta 60
 gtatccacaa atgaggctcc atcatcctta ggatccataa ttgacgcacc attttaactg 120
 aacatttaag gacggttaga aaaagcaggc aggactccag acttagcctt tgcgaactg 180
 gttcaaaaaa cctgggcttg aattacagga atcatcctgc tggttcaaac tctaataggg 240
 gttggctg 248

<210> 53135
 <211> 434
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K2-D11

<400> 53135

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 gtacagaagg aaaaggacca cattgagggc tttgcacctg aggtagcttg ggttactaaa 120
 tctgggaaat ctgacctgga agcaccgatt gcaatccgcc ccacaagtga gactgtcatg 180
 tatccatact tctgcaaag gataagaagc caccgagact tacccttgat gtgtaatcaa 240
 tgggtgtaatg ttgttagatg ggagtttagc aatccaactt ctttcataag gagccgtgaa 300
 tttctgtggc aagaggggca tactgctttt gcgactaaag aagaagccga tgaagagggg 360
 ctccaaatat tggaactgga caaaaggata tacgtataat ttttagcaat tccagtttcc 420
 aaaggaggga aaag 434

<210> 53136
 <211> 306
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K2-D12

<400> 53136

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 gagttcgccg ggggcgcgtg gcggcaggtg gccgccatgc cggccgcat gtcgcacgga 120
 ttccacggca cgcgccccga catcaactgc gtcagccacg gcgaccgcct catggtctgc 180
 gtcacctacg ccgaggccaa cgctgcttc atgtgcgacg tggccagcaa ccagtgggag 240

gagctgcccc agtacgtcaa tgctgacagc gagggccagcg agttcctggc cgcattctct 300
tcgagc 306

<210> 53137
<211> 600
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-H6

<400> 53137

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cctcccgaga agcaaattgt gacggccaat cctgatatca atgtcgtgga gctctgcat 120
gatgacgact ttgttgttgt agcatgtgat ggcatttggg actgcatgtc aagccaacag 180
ctggtggatt ttatccacga gcgtataaac acggagagca gcctgtctgc cgtgtgcatg 240
agagtgtctg acagatgcct ggctccatca acgatcgctg gagacgggtg cgacaacatg 300
accatgatcc tgggtgcagtt caaaaaacct gtcgatcgga acaagaaggc cgaagcagca 360
gggcaatctg ccagcaatgt ggacgaagcc aagagtcgtg ttgctgagga gtgaagcatg 420
gctggcactc accagggcgc aaccatttgc tttcataagg caggtgaaaa aaaggaacga 480
agaaacctgc agtgtacgta tctcaactgt acgtggcatg ccatgcaaact cctgcctaag 540
ttaccccgga caatggcatt gcctagtga gtggtggatc ttcagatcac aacctttctt 600

<210> 53138
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K2-E11

<400> 53138

cccacgcgtc cggatgatgtt ccagctaact ccaaagggtc ctccttcgga tgcttgcgtg 60
ggtgtcatca agaaggcaaa cgtttcttgc ttgtgtcca aggtcaccaa agaaactgag 120
aaggttgtgt gcatggagaa gggtgtgtat gttgctgagc agtgaagag gccatttgag 180
catggcttcc agtgcggaag ctacaagggt ccagcaaact gatgatatcg caagagggaa 240
gcgcttgacg tagtcttttag atttcaattg ttgcagccga tcaaccttct tagggttgta 300

taatatgaag tcaatgttga gactaatgtg aggtgggaaa ggcctattga tgcacaaat 360
gtattatgag ctaat 375

<210> 53139
<211> 143
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-F9

<400> 53139

gtccgattcc cggtcgaccc agcgtcgac gcgtcgaaat aacaaaatta tggatggat 60
agaatcacia tgaatctgaa acaggtctat acagataacg cacacatgta cataaaaaaga 120
atggaaaaat aaaagggcgg cgt 143

<210> 53140
<211> 544
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-042-Q1-K1-G1

<400> 53140

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gagtaagcga cagcgaagga gggagagggg gatggccggg atcgggccga tcaggcagga 120
ctgggagccg gtggttgtgc ggaagaaggc acccaccgcc gctgccaaga aggatgagaa 180
ggccgtcaac gccgcgcgcc gctccggcgc ggagatcgag accatgaaga agttcaacgc 240
tggatgaac aaggcggcgt ccagcggcac atccctcaac accaagcgcc tcgacgacga 300
cacagagaac ctgcgccatg agcgagttcc aagtgcctg aagaaaaatc tcatgcaagc 360
aaagctcgat aagaagttga ccaggcaca gcttgctcag atgatcaatg agaagccaca 420
ggtgatccan gagtatgagt cangcaaggc aattcccacc agcagataat tgcaagctcg 480
aaagggcctg gaacgaagct gcgtgcagaa taccagacat atacgaaaca ggaactgctg 540
tata 544

<210> 53141

<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-G10

<400> 53141

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ctactggcct tggggaggag atgattgtta gcagcatgaa gaagtatgaa gatagagcag 120
tagaactagc gctgaatccg gtgaagcttc aagcgctgac taacaagctc aaggaagttc 180
gtatgacctg cccgttgttt gatacagctc gatgggtgcg caaccttgaa agggcatact 240
acaagatgtg gaacctttac tgctccagtc gccacccgga gccattcaag gtggtagagg 300
atgacaatga gtccccattt gaccgctaac gagatctcat cagcagcccc gctctgtaaa 360
taaggcgaga gttgtagaat atttagcatc gt 392

<210> 53142
<211> 250
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-G11

<400> 53142

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caacttggag ctgaacccat tcttagagat ggataccaaa tgctacttca ctggcggccc 120
cttcgcaacg ctggacatga agtgctttct ccccggcagc ttgcagcata tgctggatgc 180
acagcagcgc cagatgctcg ccaccgagct gaacctcggc taccaactgg cgccgtatgg 240
ttctgacgct 250'

<210> 53143
<211> 310
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-042-Q1-K1-G12

<400> 53143

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tgattggctn ttctagatac attgcttcaa ctattgtatg tcgaagtgca tagcanaatc 120
aatgtatcta gaaaaactaa aacgtcttaa aatggaggga gtattattat tcagaggggtg 180
ccgtggggga gtgggactat cctaaacgag tgaaataaca atattacatt tgatgccttg 240
ttatagcagt atgcaatata ttagtatact catagttgga gtagcgaacc atcttagagt 300
gagaaaactg 310

<210> 53144
<211> 363
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-G2

<400> 53144

gccaggtgta cgtactagta ctagtagatg cgtcacatac tatccagcta cgtactacta 60
ctagccgggtg cacatcacta gcgatgactg ccatccacgg tagccatgcg tgcccaccgt 120
tgaagatggg tcaagtccgc caccagcctc gccgtgggtc agcgtatcaa gagcagcctc 180
agcctcgta gcaaccgccg aaggatccgg agcatgcacg tcttgaccga ctacggaagg 240
atgaagtgca tgacgctgtc gtacgtgtac gcgatgtcga cggacgagac gctgaagcac 300
gtggactagc tgctgagcga cgacctgatg cactaggtgg actacatgat gctcagctgc 360
tgg 363

<210> 53145
<211> 401
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-042-Q1-K1-G3

<400> 53145

cgataatccg ccggcggtga gatgtgggtt tatcaggaac tcctatctgg cgacgaggct 60
cctgtcggat tcattcacct acaaggagct cgagaacggc gtnctgtggg aggtcgaggg 120
agagtgggtc acccaaggtc ctgttgatgt ggacattggt gccaatccat ccgccgaggg 180
tggtgaggac gaaagcgttg atgacacagc tgtgaagggt ggtgatattg ttgacacatt 240

ccgtctacag gagcaacctn cttttgacaa gaaatcattt gtgtcttaca tcanaaaata 300
catcaagaat ctactgctg tgttgaggcc acagaaagcg gatgagttca aaaaggggtg 360
cgaggggtgca accaagtttc tccttagcaa gctgaaggac c 401

<210> 53146
<211> 614
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-G5

<400> 53146

gactctttcc gttgctggct tcagcatatg catttagatt tgtgggtgac tggctgaagt 60
ggctatacat ggatgtcact cagaaactgg aagctaaaga ctactcaaca ctgcaagaag 120
cccatgcctg tactgctggt ttgaaggctg tgacaacatc tgcaacagct gatgccattg 180
aagaatgtag aaagctctgt ggcggacatg gttacctgaa cagcagtggg cttcctgaat 240
tgtttgctgt ctatgttcct gcttgcaact atgaaggaga caatattgtt ctgcttttgc 300
aggttgcaag gattctaatt aagaccttat ctcaattgac atctggaaaa caacctgttg 360
gtacaatggc ttacatgggc aatgtacaat atctgatgca atgcaaattg gctgttaaca 420
cagctgaaga ttggcttaac cctgttgcca tacaagaggc gtttgaagcc agggctctca 480
ggatggcagt aaactgtgcc cagaacatag gccaaagcagc aaaccaagaa gaaggtttct 540
atgagcggtc ccctgatttg ctagaggctg cagtagctca catccagttg gtcattgtaa 600
ccaagttcat ttcg 614

<210> 53147
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-G6

<400> 53147

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acctaggaac atccggggat gtcgactcct gcgaggaaga ggctgatgag ggatttcaag 120
cggttgatgc aggaccctcc ggccggcata agtggcgccc cgcaggataa caacataatg 180

ctgtggaatg ctgtcatatt tggacctgat gataccccgt gggatggagg tacgtttaag 240
ctgactctcc agtttaaatga agaatatcca aacaaaccac caactgtgcg atttgtttct 300
aggatgttcc atcctaacat ttatgctgat ggaagcatat gcttagatat cctgcataat 360
cagtggagtc cgatatatga tgtagctgcg atactcacgt taatccagtc attgttgtgc 420
gatccaaacc cgaattc 437

<210> 53148
<211> 456
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-042-Q1-K1-G7

<400> 53148

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tggcaggcgc cgggtgcgcc gcagttcccc aggccggctc cccagcccc aacttcgacg 120
tcacgtggtt gggcgccggc atcatgggca gctgcacggc gcacgcggcg gcgtctcgcg 180
gcgcccgcgt cctgctgctg gagcgcttcg acctgctcca cccgctgggc tcctcgacg 240
gcgactcccg catcatccgg gacgcctacg cgcagccgcg gtaccttcgc atggtgcgcc 300
tcgcccgtg cctctgggcc gncggcgagg cggaagccgg ctaccgctg ctacccccga 360
cgccgcacct ctccatgggc ccgcggagca gcgcctcgct cgccgncgnc atcgctaaca 420
tcggtgccga ggaggtggac gtggacgacc ttcacc 456

<210> 53149
<211> 619
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-042-Q1-K1-G8

<400> 53149

gtcgccgacc cactccccga tggggatcag ggatacatcg ttctcaatag gccatgggca 60
tttgttcagt ggctccagaa agcagacata aaggaagact atattttgat ggcagagcca 120
gatcacataa ttgtcaagcc tatcccaaac ttgtcgagag atggtcaggc agcagctttc 180

cctttctttt acattgagcc taaaaaatat gagaatgtgt tgcgtaagtt cttccctgaa 240
 gacaaggggc caatcactaa gattgatcct ataggaaact ctctgtcat tattgagaag 300
 gaatctcttg gaaggattgc accgacttgg atgaatgttt cattagcaat gaaaaaagat 360
 cctgacgcag ataaatcttt tggctggggtt cttgaaatgt atgcctatgc cgtggcatct 420
 gctctccatg gagtgggcaa catcttacgc aaggacttta tgattcagcc accttgggac 480
 ttggaagttg gtgattcttt tattattcat tatacttatg gctgtgatta tgacatgacn 540
 ggtaagctga cttatggcaa aattggagaa tggagatttg acaagagatc atacacggac 600
 aaaccttcac ctagaaatt 619

<210> 53150

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-G9

<400> 53150

cccacgcgtc cgggtgaagt tgctccatga ggcagcgggt cacgtggtga cggaggagct 60
 caagaccggc gaagtgtacc gggggtcatt ggtcgagtgc gaggataact ggaattgcca 120
 gctcgagaac ataaccttca ctgccaagga tgggaagggt tgcgagctgg agcacgtctt 180
 catcagagga agcagagtga gatttatgat tatacctgat atgctcaaga acgctcccat 240
 gttcaagcgc ttggaagcga ggattagggg caaaggatca gctattggag ttggctcgtg 300
 acgtgctgtt gcaatgcgtg ctcgggctgc tgctggtcgt ggtgggtggtc ctgttggacg 360
 aggtaacgcg cctcctgtga ggaggtagat tctaaatggc ggcttttctc gtctggc 417

<210> 53151

<211> 231

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-H11

<400> 53151

cccacgcgtc cgcaagaacg tgcccatgct gaaggcaact gcctcaagat tgtttggccc 60
 tttatttgat tggatagaaa catgggaaat gatatcaaga cttaagtatc ttggaactat 120

gcttttcctg cataattttc agcaggcttt tacatgggtcc ctttaagattg tgggtgctgc 180
 taagtctgct cttagtgttt tgacaaagcc aattgcggga ccaattctgg a 231

<210> 53152
 <211> 231
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-H3

<400> 53152

tttcgtcgta cacctcaccg gctttccttt gctccactct agcgacgcga tttctgtgct 60
 cttttgagat taaattatct tggactgctg ttgggtctgg cggcggctgg tggcataggg 120
 atggagaccg cagctgcgat ggtggagggc ggagtggggc ggtttttgtt ggccgccggc 180
 atgttcgcat ctctgccggc tgtcttacag gttggtcatt taaaaacctt t 231

<210> 53153
 <211> 316
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-H4

<400> 53153

cccacgcgtg cgcgtcgccg ttgttgctgt gactgcagcg ttggcggggc ttgtaccgac 60
 taaatgggac acaagcggcc ttattgttac cggaagagc ttccgcggaa gcagatccct 120
 atgatcaggt gccaaagagt cgttacaata ccggagaacg cacatggtaa ggcccaaggg 180
 aacgcacaag gccaccacag cctgactaca ttaaccacga gcactattac aactatagcc 240
 tcctgtattg catgctctaa acattgctag acaaatgcct gtatgcatca atgaacgctc 300
 gagaccggtg ccacaa 316

<210> 53154
 <211> 107
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-E11

<400> 53154

cccacgcgtc cggatgatgtt cccagctaata ccaaagggtcc cttcttcgga tgcttgctga 60
 ggtgtcatca agaaggcaaa cgtttcttgc ttgagctcca aggtcac 107

<210> 53155
 <211> 101
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-E12

<400> 53155

cccacgcgtc cggatacgct catacatgat catgtggcac actcatcaca ggactatcca 60
 tgcactacga gattccatta acatccttgg cacattactg t 101

<210> 53156
 <211> 623
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-042-Q1-K1-E2

<400> 53156

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 cctctcgttt ctcttttcaa taatcaagat gagccgtggt ggtagtgccg gtggtggtca 120
 aagttctctg gggtatctct ttggaagcgg tgagcccccc aaaccagcag tggcaccagc 180
 tgcaagtgtc ccacctgttg agaaaccatc tgctgcaaag actgatgcgg ccaagcaggt 240
 tgctgctggg gttaccagcc aaaccaataa ctaccacagg gctgatggtc agaacactgg 300
 caacttcctt acggaccgct cttcaaccaa ggtccacgct gctcctggcg gtggctcttc 360
 cctgggctac ctgttcgggtg gcaactgatg cccgtgctgg tgcgctcacc aaagttatcc 420
 tncctgcct gctgcgtgct atgtctgaat cgtgaacaac cgttgctcatt tcatgtgtgt 480
 acccgtgca atgctttgtg cgcagtgttg atttctctgt ggcaaacttn ccgtcctgca 540
 tggggttgta agctgtctct aaatttcacg gcaagtcgtg tgccttgacc ttcattctaa 600
 aggtgtgtcg tattccttcg ctt 623

<210> 53157
 <211> 456

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-E4

<400> 53157

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tggttctccg tttaaagaaa caagggttg atgtttcccc aaagattctc attgttactc 120
ggctgatacc agatgcaaaa ggaacatcat gcaatcagcg gcttgagaga attagtggaa 180
cacagcatatc ttacatatta cgagttccct tcagaaatga aaatgggata ctttaagaaat 240
ggatatcaag atttgatgtg tggccatatac tggaaacatt tgctgaggat gctgctggtg 300
aaattgctgc tgaattacaa ggtactccag acttcataat tggaaactac agtgatggaa 360
atcttggtggc atcgttgcta tcttacaaga tgggaattac ccagtgcac attgctcatg 420
ctctggaaaa gactaaatat ccagattcag acatat 456

<210> 53158
<211> 661
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-E5

<400> 53158

gttcgaggag ctgcgcccg tgcctaagca gcagcccgcg gtgcccattg acgctggggc 60
cttctcgcgc gcctgctcca acgtctccgt cctcttcggc tgccctcggca tcgctttcaa 120
gttcgcggag atggactacg tcgccaaggt tgatgatttg gtggaggcgt ccaagtcaat 180
ttcaacattg ccttctatgg ttgagcgaga cattcagacc gacactgtca ggaaaccagg 240
gagccatata aggaatctgc ttagagtga ggcgcgggatt gatatggtta aagtcctgtt 300
tgagcaaatt cttgtcacag aaggcaactc actaagggat gcagcatcgg tggcttatgc 360
tcagggtcttt gtcctcacc atggatgggc aataaggaaa gcagtttctg ctggaatgta 420
cgcccttccc tcaaagtccc agctgttgaa gaaattgaat gaagatgagg aatcagcaaa 480
ggttcaaattg cagaactttg tcaggatcatc aactccagta atctgctatg ttgatgaccg 540
tttcacctca aggaatttgg gcatagatcg gtgaagaaaa atatggatac gtttgtttga 600
tgtactaatc cagtcagatg gtgtgctgag tgagctgggc tcagaaaacc tttttccgga 660

<210> 53159
<211> 270
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-E8

<400> 53159

gtcagctgct ggcgctgccg ccactgcttg ggcggggcggg acaacctgtg cgaggacatg 60
aagttcttcg ccaccccgcc ggtgcacggc tcgctggcga accaggtggt gcacccggcc 120
gacctgtgct tcaagctccc cgacggtgtg agcctggagg agggcgccat gtgcgagccg 180
ctgagcgtgg gcgtgcacgc gtgccgccgc gcggtggtgg ggcccagagac gggcgtgctc 240
gtggtggtcg ccggcctcat cgttctggtg 270

<210> 53160
<211> 366
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-F1

<400> 53160

gggcggtgac cccgagaagt tcaaggagct cgcacaagcc tatgaggttt tgagtgatcc 60
agagaaacgt gagatttatg atcagtatgg tgaagatgcc cttaaggaag gaatgggcgg 120
tggaggatcc catgttgatc catttgacat cttctcatca ttttttggac cctcttttgg 180
aggaggtggt ggaagcagca ggggaagaag gcaaaggagg ggagaagatg tagttcaccc 240
acttaaagtt tctctggaag atctttacaa tggcacctca aagaagctct ctctttcgcg 300
caatgtcatc tgctccaagt gcaagggcaa gggctcgaag tctggtgcct caatgaggtg 360
ccctgg 366

<210> 53161
<211> 156
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-F10

<400> 53161

aaaaaaaaa aaaaaataac aaaaaataaa tataaaaaag aatcacaaat gaagtccgat 60
aatagaagct aaggtcagac ctactcgagc atcctacata atatatattg taaagtgaca 120
tccaaaactc tattacactg gcacgacatt ttacaa 156

<210> 53162

<211> 394

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-042-Q1-K1-F12

<400> 53162

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tatgttgagc tagttattgc tagggtaaaa ttattttatt gaattttaat ttcttagccc 120
tgcgcaatct ttaggttggt atgcaaactg gtgatgctga gctggaaatg cgagggcgct 180
gcagtgcctg tcagaagttt cttgcttctc ttataatcag actagcactt gcggaaactt 240
tctgcctgaa ctgcggtata ttggctttgg atgagccaac tacgaatcta gatgggccaa 300
atgcagagag tcttgctgct gcgctgttga gaataatgga agccaggaaa gggcangaga 360
acttccagtt gattgtaatc actcatgatg agag 394

<210> 53163

<211> 244

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-F3

<400> 53163

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cgaatgaagt agtagtagct gttgtttgca ttggatctga caatgcatgc taataattat 120
ggtggtgtga tggctcttggc cggtagctgc gtagtcgtct acgtacgccg tgtcaacgtc 180
gtagatctct acgggaagat gataagactg taacatgcag ggcatgcatc tatttatact 240
taac 244

<210> 53164
 <211> 496
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-042-Q1-K1-F4

<400> 53164

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 tgccgtgcgt tggggacaag gaacctctct cctctttagc agctgagttt cagtctggca 120
 gccccatttt acaagagaaa attaagttgc ttggcgagca atatggtgct ttaagacgta 180
 cacgtggaga tggaaactgc ttttatcgaa gctttatggt ttcctacctg gaacacattc 240
 tagagacaca agacaaagct gaggctgac gcatcatggt aaaaattgag gaatgcaaga 300
 aaacactcct ctctcttggga tatattgagt tcacttttga ggacttcttt tcgatattca 360
 ttgaactgct ggaaagtgtt ctgcanggac atgaaactcc tatagggcct gaagagcttc 420
 tagaaagaac cagagatcca caagtttctg attatgttgt catgttcttt aggtttgtca 480
 cttctggtga aattca 496

<210> 53165
 <211> 387
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-042-Q1-K1-F5

<400> 53165

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 ctcttggtac gaggcgaggt ggggctacag caaccgcgtc gtcgacctga tccgccacat 120
 gttcaagacc cagtagagag agatatttct gcctccctat cgtggggtcgt cccaatggc 180
 ctttggtcgc agaccatctt tgctgcttgt ctatgctgag aataaatgtg aacggtgccc 240
 ctggacgctg gatccatgct ggttttggac acgttgtctt tttgtgttta acttatctgc 300
 taccgtcctg taacgaattc actaagttct agttcttttg tgctttgtta agaataataa 360
 caatgaggtt tcaattttgg tggcgcc 387

<210> 53166
<211> 478
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-F6

<400> 53166

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gccgcgaggc cagccgcgcc ctccgcaaga tgtccaagga cgaggccgac gtctccgggg 120
acctctccgg gctcaccgac aaggagctcg gcgtcctcgc cgactgggag atcaagttcc 180
aggccaagta ccccgtcgtc gcccgactcg ccgccgacgc ctgaactcgt cagtctcgg 240
ctaaatttac tctgtcctgc ctcttgccgt gttcagtgc gtgcttgctt gcttggtgct 300
agttgctttg ctaccaata atctgaatgg aaggacgtat gtgatgtgcc tgctgaatag 360
ttcctagtcc ttgcatacac tgctgtgcta ccacatgaca tgatgtactc gtgtgtgtgc 420
tttggttggt gtgtaattcc atgaccatga tcagtaatct gaataaaaaa tattggag 478

<210> 53167
<211> 465
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-F7

<400> 53167

gcaaaaaaaaa aaaatgcctt ttgaaaata aagatttcaa cttaaaaaaaaa aggttttttc 60
cataaaattt ttttttaaac aattaaattg tggatttaac aaaatttttt gaaacctttt 120
attctttttt aaaaaaaccc ttgggattta tttcaaaca ggtaaaaaat caggggggtg 180
aaaaaacctg gaaaaaata aaattcttgt aaaaaaaat aggggggtta accttttata 240
aaacgctcag taaaaaaatt tgataaaaaa atttttttcc aatttggtt tcttaaaaaa 300
agttctttta aagggatatt ttttaaaatt aaaatttttt tgaaaaaaa attttacggg 360
cccttttttt ttccagtttt aaaaaaagg cggggggggc tcccaaaaaa ttttttgga 420
aaaccgcct tttttttatc tttaaatatt tgaacccttt ttttt 465

<210> 53168
<211> 401

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-042-Q1-K1-E10

 <400> 53168

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 tgcactggga gctgccattg ccattccttg cacattcctg tactctcagg caaaggcgtg 120
 aggcggggcca tgatgacgaa cgtctgcaga atcagtagca agcactaaat ccaattttgc 180
 ttgttccagt ggcattgtaga tatcgggtta gttttccgta tgagagtttg taataatgga 240
 tgaatggctc tgctgtttcg ttcttgtttg ttggccagac tcaaattccat aggccatgaa 300
 ctgcggtcga gtgtacctga ataatactgt acggaagatt cgccgatgct tgttctttat 360
 gggatatatat ataggccaag ccggaattcc ggttttaata g 401

<210> 53169
 <211> 328
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-042-Q1-K1-C6

 <400> 53169

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 tgatgctatt tatgttgat aagatgatgt gcgctatggt gtctgatggt tttatatata 120
 ttataatggt gacgaaaccg aggtaaaaaa taatttatat atgtatactg gtgtgattgc 180
 ctgctaaaa aaaatttttg gaccaaattg ttaaattctt gacatagaac atgcataatt 240
 cataatttgt tcttgatcgt tattgggtctt tttatatcat gatctatttg gctgatattg 300
 attattttct tgatcttggt tattcttt 328

<210> 53170
 <211> 65
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-042-Q1-K1-C7

 <400> 53170

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tgttt

65

<210> 53171
<211> 265
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-C9

<400> 53171

attcccggtc gaccaccctt ccgaaaaaaaa aaacaacaaa ctaaaaatac taataaaaaa 60
caacaaatac tacactaaac tacaaaaaaaa gggctgaata ctctaaacga ttcaaattta 120
aatctcctta ttttcgaata cttcatactt taatatagga acctaaatat agataactac 180
cccatgctta caaacgtttt tattcaaaat acccacgttt acaaaaatta tatttttctt 240
aattacttca cttttttacaa aattt 265

<210> 53172
<211> 339
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-D1

<400> 53172

aaaaaaaaa aaaaaaaaaa aaaaaaaatt aaaaaaaaaa aaaaaaaaaa aaaaaaaagg 60
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaa aaaaaaaaaa aaaaaattgg gggggccttt ttaagggaac caattttatt 180
aacccttttt ttaatatata aagttttttt atagtggacc caaattttaa ttatttgacc 240
tggtttttaa aaaaaaattt ttggaataac ctgggttttc caaaatttaa ttgtttggaa 300
aaaaatacct ttttaaaaag ttgggatatt tgcaaaaag 339

<210> 53173
<211> 276
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-042-Q1-K1-D10

<400> 53173

gtcaccaaatt cattccagtc cctacatgaa gcatacaaaag ggaaaattgt tgggctggta 60
atatccacaa atgaggctcc atcatcctta ggatccataa ttgacgcacc atcttcaactg 120
cacatttcaa gacggctaga agaagcaagc aagactacag acatagcctc tgctgtactt 180
gttcgaaaga gcttggcatg attacagggg tcatnctgct ngtttcaact ctcatagggg 240
tttgcttgct tatgaacatg ccacttacca gggaca 276

<210> 53174

<211> 278

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-D11

<400> 53174

gaaattaaaa agctgaagct cataccatat tatttccctt tgtttggtac tgagaatgtt 60
ctacagaagg aaaaggacca cattgagggc tttgcacctg aggtagcttg ggttactaaa 120
tctgggaaat ctgacctgga agcaccgatt gcaatccgcc ccacaagtga gactgtcatg 180
tatccatact tctgcaaagc gataagaagc caccgagact taccctagat gtgtaatcaa 240
tggtgtaatg ttgttttagat gggagttaac aatccaac 278

<210> 53175

<211> 264

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-D12

<400> 53175

gcagcggcct acgccgtcgt gctttcgaat tacctcggca cggccagcct gcgcgtctgg 60
gagttcgccg ggggcgcgtg gcggcaggtg gccgccatgc cgtccgcat gtctcacgga 120
ttccacggca cgcgccccga catcaactgc gtcagccacg gctaccgtct gatggtctgc 180
gtcacatacg ccgaggccaa cgctgcttc atgtgogacg tggccagcaa ccagtgtgag 240
gagctgcca agtacatcat atgc 264

<210> 53176

<211> 527
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-042-Q1-K1-D3

<400> 53176

cgtggacaag acgcacgtgg cgcacacccat cctgngcacg ccggagttca tggcgccgga 60
 gctgtacacg gagacgtaca cggagtcggt ggacatctac tcgtacggca tgtgctgtct 120
 ggagatggtc acgcgggagg tgccctacgc cgagtgcggc agcgtcgtgc agatcttcca 180
 caacgtcacc cggggcgctcc cgcccggggc gctcaagcgg ctcaaggacg ccgagctgcg 240
 gggtcttcac gagcgtgtca tcggccagcc ccggaaccgg ccctcggccg ctgacctcct 300
 gcaggacccc ttcttcaacg gcgtccgtgg cggngacgac gacgacgacg ccgcggcgct 360
 cgccgacgcc ttcagcgtcg tcgccgncgc gcccggtgcc cgccccagga gctacgtcga 420
 cgacctcgcc gggctccggc tggactgacc tgaccgtccc tcccagcgtt ctgcctttca 480
 tcagtaccgg gattccggcg cgtgttagac gtgttttatt agaagtg 527

<210> 53177
 <211> 507
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-042-Q1-K1-D4

<400> 53177

gggaagtact gtgatgtaac acttatgtca ctggcatatg ccgggacagg aaatgtgctt 60
 aagggtcaga aacttcttgg catttgctca cagcatcttg agaaagggtga aacacaccaa 120
 gggccagctg tcttagggat tgctcttatt gctatggctg aagaattagg agctgaaatg 180
 gctgtacgtt cacttgagcg tcttctgcag tatggcgagc agaataaag acgggcagtt 240
 cctcttgctc ttggtatact ctgcatact aatcccaagg taaacgttat ggacacacta 300
 agcagattga gtcattgatc agacccgat gtgtcgatgg ctgcaattat ctcatgggt 360
 ttgattggtg ctggcacaaa caatgccaga atagctggca tgcttcgcaa tctttcaagt 420
 tattactacc aaagaatctg ctcatctgt ttgtgttaaa attgcccagg gccttggtca 480
 ccttggaag ggctttgttg acccttt 507

<210> 53178
<211> 687
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-042-Q1-K1-D5

<400> 53178

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agaagacaag gacgaaggca gcaaggtgac tctttcaggg ctctcaact tcatcgacgg 120
gctgtggtcg gcttgccggc gcgagcgcac catcgtgttc accaccaacc acaaggacaa 180
gctggaccgc gcgctgatcc ggccgggagc gatggacatg cacatcgaga tgtcctactg 240
ctgcttccag ggcttcaagg tgctcgcaa gaactacctg ggctgcagg agcatgacgg 300
cgagctgttc ggcgacatcc gtcggctgct ggaggaggtg gacatgactc cggcggacgt 360
ggcagagaac ttgatgcta ggtccaagac caaggacgcc gatgcctgtc tccggaggct 420
cgtcaaagcg ctccaggagg ccaaggaggc ggctgtgttg gcggccaaag ccaaacaact 480
ggacgggatc aaggacgatg aggaaccga cgatgaagac gacagcgatg acgatggcag 540
cgttaccagc agaggtcacc cctccgacgg tgacgaanag agtgccaaaa aagaggaaat 600
gtaataaaaa agttttaaac ctataaaagc ctgaaagcta ggtgaggata cttgactnga 660
gcattccttt ccaagctggt ggtacct 687

<210> 53179
<211> 650
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-D6

<400> 53179

cccacgcgtc cgtccaaatc cgctcgtctc ccctogaagt cactccctcc agccctcgcc 60
ggctccgcgt cctccggctc tcccaccga gccgagacca cccatccaag cgcgcgcagc 120
tccggaagcg acagggccgg acgagcgctt cccaaattta gcagccgcgg agcgcgtggg 180
cgtgggtccg taaggagggt cgatggggtg cctgccgtcc ctgagcagca aggcggcgca 240

cttcgtgtcc gacctcacca ccgtcatcct cagccccgtc tccgagcgcg agacgtccca 300
cctccccgag gttgacgaag tgctagaaaa tttggacgat gataaagatt ccgagcacia 360
ttccgatagc cttgatggcc ctgacacatc ttcctttaga gcattcttga tctcattttt 420
gtcatcatcg agctctaata acgattcaat ggagataatt cctgagcaga atggggacat 480
gggttacccct actttaacac ccatggggaa gggaagcaag ggaagaacgg gtctgttaag 540
tagggggaag cattccatcg gaaaaatcat taacaaggcg gcaaggatta gtggtttcaa 600
acaaacaact gcagagccta aaattgacag ggaggcagta actcatactg 650

<210> 53180
<211> 345
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-D8

<400> 53180

cccacgcgtc cggcgcggtg cccgtgccgg tgtcggcaga cgcggcgcaa gcgctggagg 60
gcgactgcgc ggcggggccgc gtggagctac gcctcgtcgt catggggccg gtcaagtaca 120
tgagcggggc attcaggacc ggatggcgcg ggctatacct gcgctgcgat gtcaccgtcg 180
gcctctgggt ggacgccacc gcgggcgacg acggagccgg ggacgtgcca ctgctcgagt 240
acccaagtg ctccgtcgac gcttgagttg atccttgatc ggcgcaatgc atgagcgctc 300
agatgatcag attttcagaa ttctggtgga gaataaggaa ttggg 345

<210> 53181
<211> 597
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-042-Q1-K1-E1

<400> 53181

gagctccgct tgcttgaagt attttaccac aagatttata agatctttcc acctcatgag 60
aagatagaga acataaatga tcagtactgg acattacgag ctgaggagat cccagaggaa 120
gagaagaatc ttggcccaca tgatcgattg attcatgttt accatttcat gaaagaccct 180
aaccagaatc aacaaattca aaattttgga gatccttttt tgatggttat tcgggaaggt 240

gagactgctg cagaggtaat ggagcgcac cagagaaaac ttagagttcc tgatgatgag 300
 ttctccaagt ggaagcttgc attcatatcc atgaaccggc cagagtacct ncaggacact 360
 gacgttgat cagcacgntt tcagcggaga gatgtatatg gtgcttgggg acaatacctt 420
 ggcttggagc aactgatac aacatcgaaa cggctctacac atccaatcag aatcggcaca 480
 cctatgagaa gcccgtaaaa attattaatt gagaaacctt catcaagggt caatccattg 540
 tcaaaggcgt cgacagcagc ttgcccaagg tgatacgacg ctttaaacgg aaaaatc 597

<210> 53182

<211> 700

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-042-Q1-K1-C5

<400> 53182

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 aactacagga gtactggaag cagtcccaaa gttctacgcg tcctgcccc aatgcataatg 120
 ctgctgataa atggattact gagtttggca agcaaaataa taatccagaa aattgggcga 180
 actctttcga acaacaatat ggccccaatg ggtgggcctc tgagtttgaa cagcatcagt 240
 ctcatatggc catgcgccag atgggaggag cgaacatggc caacctggct gctatggagc 300
 aatcccgagt gcttgcacaa acttttagcaa gtaataatga tccaagttt cagaattcta 360
 agttcttcca gtttgtttca aagatgagcc gaggtgaact tattatagaa gataatcaag 420
 taaaagaagg ttcagcatcc caatccagtg gctgggctga tgaatttcaa acaccgtaca 480
 ttgctaatgc aaactcatgg gcagatcagt ttgcacatga agagctttca caaggggcgg 540
 ataagtgggt tagcgagttc tctagtcaac ctaatcatgg tgcactaaat gagaactggg 600
 ttgatgagtt ctcgaaataa atgttactga cgaatgggca gaggaattca gtggaggtgg 660
 ttntggcgaa agctctgctg gatcatgggt agatgagttc 700

<210> 53183

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-B2

<400> 53183

gcgttgcttc cgctcctggt ggtccgctac gcacgccgga tttttgcatc gagcacggag 60
atctacaaca aagacatgga gctacgacgc gattcccaag tatgatggat tccactattc 120
atcaaccgaa attatggcgc gcttcaatcg tggctacgct gatggggaac tgatccgtta 180
tgggtgtgctt ggatcgtggc tgtgtggaga tgtgtggaac tcattgggta taatggtgat 240
gctgatggaa ctgattttgc tcccgttga cggcctgatt gggtactttg ccctgttgac 300
tgtttgagaa cgtatccgcc aggtttactt atacttactg ctttttgacg gtactgt 357

<210> 53184

<211> 500

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-B3

<400> 53184

gtggccgttt agtaacactt ctgggtggga gggcagcaga ggaagttggt ttagcaggac 60
gggtttccac tgggtgcactt gatgacataa gacgtgctac tgacatggcc taaaaagctg 120
tagcagaata cgggtcttaat cagcgcatcg ggccaatatc acttgctaca ctgtcaaatg 180
gtgggttaga tgactctggt ggttctccat ggggaagaga tcagggccat ctagttagtc 240
tcgttcagag ggaagtaaaa gcgcttttac agacggcact ggaagtagct ctttcagtta 300
ttcgtgctaa tcctgcagtt ttggaaggcc tcggagcata tttagaagag aatgaaaagg 360
ttgaaggcga ggaacttgaa gagtggctaa agtcagttgt tgcataaaaa gagttgacct 420
cttttatcag aggacagcaa gagcaagttc ttcagctgga agcaggctcc tagcgtcagg 480
gactcttaaa taaatactta 500

<210> 53185

<211> 275

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-B4

<400> 53185

aaaaaaaaaa aataaaaaaaaa aaaaaaaaaa aaaaaaaaaat aaaaaaaaaa aaaaaaaaaa 60
 taaaaaggga aaatataaaa aaaagaaaaa aaataaaaca aaatataaaa tacctaaaaa 120
 aaagtgggtgt aaaatattgg tttaaagcta tgttaaatta tcatgatagg atgttacaag 180
 atgaatactc tatcatatcc cttttaagaa gaaactttat cttaaagttc atgtactacc 240
 catagaaatg gatcctatag taacacattg aacac 275

<210> 53186
 <211> 691
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-042-Q1-K1-B5

<400> 53186

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 accctcgcgt cttcttcgac atgaccgtcg gcggcgcccc ggcgggcccg atcgtgatgg 120
 agctgtacgc caacgaggtg cccaagaccg cggagaactt ccgcgcgctg tgcacgggcg 180
 agaagggcgt gggcaagtcc gggaagccgc tccactacaa gggctccacc ttccaccgcg 240
 tcatccccga gttcatgtgc cagggcggcg acttcacccg cggcaacggc accggcggcg 300
 agtccatcta cggcgagaag ttccccgacg agaagttcgt gcgcaagcac accgcccccg 360
 gtgtgctctc catggccaac gccgggcca acaccaacgg ctcccagttc ttcattctga 420
 ccgtcgcgac cccttggtc gacggcaagc acgtcgtctt cggccaggtc gtcgagggca 480
 tggacgtcgt caaggccatc gagaaggtgg gcacccgcaa cggctccacc tccaaggtgg 540
 tcaaggtcgc tgactgcgga cagctctcct agatctctct gatctggtct gttcggccgc 600
 cctccctccg tcatcgtcga ctccccctgc gtcggttctt ttggatctga antagatggg 660
 ggtgatctga gtggtggtct tagtttatca t 691

<210> 53187
 <211> 532
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-B6

<400> 53187

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 tcgtggacag gatttttact ctgcaaatgt gggacactgt tggccatgaa tgggtaccaga 180
 gtctagacgg tgcattctac cgctgtgctg attgttgtgt gctattctat gacgtccatg 240
 ctatgatgat catatgacga cctgaataac tgtcgagaat agtatctagt tcatgctagc 300
 tccatcatat cctgataaca tacctgatgt tcaggtgggt aacaaagctg atgtatatgg 360
 tgacaacagc acacgcgtta tctgctaaca aggcgaacgc ttggtgcgct tacacaggga 420
 acatcgactg ctctgacacg tctgataccg accgaacgat cgtggaagac gctttgcaga 480
 gtgtcccgaa gaatgctctg aataatgacc atgccgaaga actgtatgtg cc 532

<210> 53188

<211> 692

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-B8

<400> 53188

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 ctctggctta gaaaaaaaaat atgcgcttca tagtcatac ctagatcttt tgggtgttcag 120
 ttttggtttc aagccatggc gaattctcgg attggacgtt acaagatgtc tactctctca 180
 gacccctcaa aagaagatac ttcacctgag ggttcaggta ctaccagag aaatggagcc 240
 tggagtaaca cattgaacac tcttctgcag caagcctcag tatatggtgt ggccgctggg 300
 tattgtttat cagcgtccct gctctcgatc atcaataaat gggcaatcat gaaatttcca 360
 taccctggag ccctgacagc tctgcagtac ttcactagtg ttgctggagt tctcctatgt 420
 ggacagctca agctcattga gcacgatgga cttaacttga ggacaatgtg gaagttctta 480
 cctgctgctg tgatgttcta catctccatc ttcacaaata gtgaactcct gcttcatgcc 540
 aatgtggata ctttcattgt gttccgctct gctgtgccta tatttgcgc gatcggagag 600
 acgctgtatc ttcacagcc atggccatcg ttcaagacat ggctttcact ctccacaata 660
 cttggtggaa gtgtgatcta tggtttcaca ga 692

<210> 53189
<211> 103
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-B9

<400> 53189

tttggccggc cggcttccaa gccggccgaa ggaacccgaa aaccaaggca agaaccccg 60
aagggtgag ggaagggccg ccgggcatgg ctgcgccggc ggc 103

<210> 53190
<211> 459
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-042-Q1-K1-C1

<400> 53190

cgacggggcg ctcgatctcc acctctgaag tggctgcttg tgatctagat ctgaaagctg 60
cagtggttga cagctgagtg tgaaactgtg aatcgaagat gagcgtggtg ggcttcgacc 120
tcggcaatga gagctgcac gtggcggtcg cgcggcagcg cggcatcgac gtggacgaac 180
tgctggaagt cgcaagatc tacggcgctc atgtgatgcc gaccttctgc ttcacagga 240
acggcgagac gctcgagagc ttgctaccg tcgacgagga cgagctccgg gacgccgtca 300
ggaagtacgc cgcgctggc actacgacgg ctctgcctc ggcgtccgcc taattcagga 360
gatgtgatgt gtagcaaata gcgcgcgcgc accagtcgtc aataaataaa ttaataaata 420
aataaataaa taaataaagg ccaacgtacg acgacaaat 459

<210> 53191
<211> 305
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-C10

<400> 53191

cccacgcgtc cgggacgcct tccacggcga caaggaccac ggcggcgctc acgacggcac 60
caccgtcgtc ctctgggagt gggccaaggg cgacaaccag cgctggaaga tctgcctg 120

gtgaacgtga acagagacga gctagatgaa tccaaggaac cttacctagc tgctgccgcc 180
gccgcctaatt tegtectect cgcctctagc tggtatctgt ctgtgtcttc gcgtcctcgg 240
ttcctgaatg gacgaataat atatagcatg catgtacggc tagcgaccat gtcttgatga 300
catct 305

<210> 53192
<211> 301
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-042-Q1-K1-C11

<400> 53192

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aagaccgtcc tcaagacgct gcgcaactcc aagggaagc tgatcatcat cgcaacaac 120
tgccctccac ttaggaagtc tgagattgag tactacgcc a tgctggccaa agttagtgtg 180
caccatttcc acggaaacaa tggtgatctt ggcactgcct gcggcaagta ctacaggggtg 240
tgctgcctca gtatcatcga cccaggtgac tcggacatca tcagtaccac cccttgacc 300
c 301

<210> 53193
<211> 309
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-042-Q1-K1-C12

<400> 53193

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cttacgaact gcaagctgcg ctgcactctc gatggtcatt gcggatatgt taacgccgtc 180
gccgtgagcc ccgatggatc gctctgcgcc tccggcggga aggacggtgt tactctgctg 240
tgggatttgg ctgangggaa gaggctgtac tcgctggatg cgggctccat catccactcc 300
ctctgcttc 309

<210> 53194
<211> 466
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-C2

<400> 53194

cgaaaaaacct cctctacagt cccatctagg cgcctctcct cggctccgat ccagttgcgc 60
cggcggccat gtcgcagccg gcggcgacgg tggcgcgggc ggcgagccg cagggtcgcg 120
gccccgcggg gcgccagggc ggcttggggc agagcatcgc aggcacgtg cggatggcgg 180
tgttctggta ctttgcgtcc aagttcttcg ggcccaagcg cccacccgcg gaccccgga 240
tgctcatgtc caacctcttc cagaagggcg agccaatgga tatgtggatg tatttgtcag 300
agaacgagaa gttcaacgat ttgctaatag aggatgcact tatttggcac gaggcaaaca 360
taccatatgc agtctgggga cctaccagta ctagaacacg gtcattaacg tactatccgt 420
cagaggctct caagcataat ggctctttgt atgctcatgt ttactt 466

<210> 53195
<211> 542
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-C3

<400> 53195

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tcggagaaga tcattgaaga aatccgaaac agagagtggg gcttgcttct aatggatgag 120
gtccatgttg tccctgcaca tatgttcaga aaagtcacg gcattactaa atctcactgc 180
aagctgggtc ttactgctac ccttgtgaga gaggacgaac gtattactga cctgaatttt 240
ctaattggac caaaactgta tgaagcgaat tggttggatt tagtcaaagg tggatttatt 300
gcaaattgtc agtgtgcaga agtatggtgt cctatgacca aagagttctt tgctgagtat 360
ttgaaaaagg aaaattcaaa gaagaagcag gtactgtatg tcatgaatcc gaacaagttc 420
agggcttgtg aattcctgat tcgattccat gagcaacaac gtggagacaa gataattgtg 480
tttgctgata aatctgttgc actaactact tatgcgatga aactgcgcaa gccaatgatt 540

<210> 53196
 <211> 526
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-042-Q1-K1-C4

<400> 53196

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 tacctcggga gctggctcgt caggaagctc ctcggcagag gctgcgtcgt ccacgccacc 120
 ctgcgagacc tcgcggaaga gaagaagacg gggctgctcc gggcgctccc cggcgcgggc 180
 gagcggctgc ggctgttcga ggcggacatg tacgacgccg acaccttcga gcccgccatc 240
 gccggctgcc acttcgtctt cctcgtcgcc acgcccctga cgcacgacct caccagcacc 300
 aagtacaaga acacgacgga ggcggcgggtg gacgcggcgc gcatcatcct ccggcagtgc 360
 gcgctgtccg gcacggtgaa gcgcgtcatc cacacgggct cggtcacggc cgcgtcgccg 420
 ctcaaggagg acggcagcgg gtacaaagac ttcgccgacg agtccaattg gacgccgctc 480
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<210> 53197
 <211> 325
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-A10

<400> 53197

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 gccgtgaccg cggttatggc ggctgcggca gctactgctg gtcggcgcca aggtggcggc 180
 tgcggctact gacgcagagg cggatacgag ggtcggcgcg aggggtggcgg cggcggttac 240
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<210> 53198
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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-A11

<400> 53198

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tcttcgttgt gatcaggacg aagagtgccg agttcatgcc cttcaccctc tccttcttcc 180
tcaccctcag cgccgtcgcc tggttcttgt acggcctctt caccaaggac ccctacgtca 240
cgctcccgaa cgtggggcgc ttcttcttcg ggtgcatcca gatgggtgctc tactgctgct 300
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<210> 53199
 <211> 441
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-A12

<400> 53199

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ccttcacctt tgacgccacg gtcgctggca gcatgactgt ttacttgttt gcaaaggaag 180
agctcaactg caatctaaca gcagtgaaag aagacctaat gaagcccgtt actgttagct 240
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ggttgaggga atcagattaa ttaaggcagg gggccttgaa ggataatcac ttggcggtta 360
aggttgaaca acattgggtg gtgatcacc accagaaggg gatgacccaa agatgaaaac 420
tcctaactta cagatcacc a 441
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<210> 53200
 <211> 539
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-A2

<400> 53200

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cccagaggac aaatcccatc caaagtttgg tgatgtttct gatctagagt tctggatgtt 180
tccgagagag gatcaaatgg caggaaggtc agccacaaga cttaaactcg gaaattctat 240
atctgagggg actgtgaaca atgagaccct tggctacttc attggaaggg tctacctttt 300
cttgacacaa cttgggattg acaaggatcg tctccgtttc cgtcaacacc tgccaaatga 360
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tgagtgtgtt ggaattgctg ataggtctgc ctatgactta cgtgcccact cggataaaaag 480
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<210> 53201

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-A4

<400> 53201

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ctgggttatg gccccggggg aggaggtggc ggtggtggta gcggtggcgg tggaggcggg 180
ggttacggag gaccaggcta tgggtccgga tcagggtatg gtgaggcggg tggcagcgga 240
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ggagctggtg gctctgggta tgggtccggg caaggatctg gctacggagc tggcagcggt 360
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<210> 53202

<211> 249

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-A5

<400> 53202

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 aaaaaaatc gatgtagtat gaagcacctt gctgctctga atattaacag gcaattaagg 180
 caaggtgctg tttcgggttg gtggaccgca tgttgacagat aataaattag ttgttttctc 240
 atttgcgtc 249

<210> 53203
 <211> 708
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-A6

<400> 53203

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 gcctcagggc cgagaactcg acttgctgat tgttatactg cctgacaata atggttctct 180
 ttacggggat gtcaaaagga tctgtgagac taatcttgga ttggtctccc aatgctgtct 240
 gactaaacat gttttcaagg tgaacaagca gcagtatctt gcaaagtgtg ccctgaaaat 300
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 ccttgtcagt gacatagcga ctattatctt tgggtctgat gtgaccatc cccatcctgg 420
 ggaagattct agtccttcca ttgcagctgt aagtgaagac ctatcctgac aaagaaatgc 480
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 ctcaagactg gcctgaggtt acaaagtatg caggattggt gagggtctca gcccatcgtc 600
 aagaattgat acaggatctt ttcaaggtat ggcaagatcc cgaaaggggg actgtctctg 660
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<210> 53204
 <211> 329
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-042-Q1-K1-A7

<400> 53204

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tgccacntcg gggactcggc gtcacgtcg tctgactcgg acgacgagaa gaaggggtcc 120
ttgttggcgt ccgagggtga agccatgaag gccaaagatct accgcctttt cgcccgaggag 180
aggcccgtcc actccgtcct cggcggcggc aagcctgccg atcttatact atggaggaac 240
aggaagatct ctggcggggg acttgctggg gccacggcca tctggcttct attggagggc 300
atggagtctc atcttcttac cttggtgtg 329

<210> 53205

<211> 433

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-042-Q1-K1-B1

<400> 53205

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acggcgggga ctcgctcgctg tcgctcgctg actcggacga cgagaagaag gggtcctcgt 120
tggcgtcggc ggcggaagcc atgaaggcca agatctaccg ccttttcggc cgggagaggc 180
ccgtccactc cgtcctcggc ggcggcaagc ctgccgatct tatectatgg aggaacagga 240
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agtaccatat ccttaccttg gtgtgccact gtctcatact ctgctggcc atactattcc 360
tgtgggtcaa tgctncaact gtcacaaaca agtccccacc gaacatttct gaggtcaaaa 420
tcctgacga tgt 433

<210> 53206

<211> 244

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-B10

<400> 53206

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aggggaaccag agagcaaggc gaggagcgcg gaagggctga gggaaggggc ggccgggcat 120

ggctcgccgg ccggcgctcgt gggagcaggg cggcgacgag tacgactatc ttttcaaggt 180
 cgtgctcatc ggcgactctg gcgtaggggaa gtccaacctg ctctcccgt tcaccaagaa 240
 cacc 244

<210> 53207
 <211> 391
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-H7

<400> 53207

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 tcatcaaggg aactaactag gattttgagt gttcagaagt ctccagtgat ccatttggtt 120
 agtgaatcaa ttgctggtgc tgctacaata aggggttttg gtcaagagaa gcggtttatg 180
 aaaaggaatc tttatcttct tgactgtttt gctcgccctt tattttccag ccttgctgct 240
 attgaatggc tcttgctgcg aatggaattg ctttcgaact tcgtctttgc tttttgcatg 300
 gcaatacttg ggagctttcc ttctggcaca atcgaaccaa gtatggctgg cctcgctgta 360
 acatatggac ttaatttaaa tgctcgcatg t 391

<210> 53208
 <211> 170
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-G1

<400> 53208

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 atacaagctt tcgagcgctg catgcacctg ttcaagttaa tgaccttcac ttaaaactcaa 120
 tcatcctgcc agggatttac aacgaggggac acttctaaaa acccaacatt 170

<210> 53209
 <211> 390
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-G11

<400> 53209

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ttatcttcat tgatgaaatt gattctttat gcggtcaacg tggagaaggc aatgaaagtg 120

aagcatctag gagaattaag actgaacttc ttgtgcaa at gcagggtggt ggtcacaatg 180

atgataaagt tcttgttctt gctgccacga atacgccata tgctctggac caggctgtgc 240

ggcgaagatt tgacaagcgt atctacattc cgctacctga cttgaaagca aggcaacaca 300

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<210> 53210

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-G2

<400> 53210

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caaaatattt tgctctctta tgctccttgg tctttctgca agtgcctgcta cggcgaccat 120

tttcccgcga tgctcgcaag ctcttatagc ttcccttctt ccccggtacc tctcaccagc 180

ggtgtcttcg gtatgtgaaa acccaattct tcaaccctac aggatccaac aggcaatcac 240

agctggcatc ttacctttat cacccttggt cctccaacaa tcatcagccc tattacatca 300

gttacctttg gtgcatttat tggcacaaaa catcagggca caacaactac aacaacttgt 360

gctagcaaac cttgctgcct actctcagca acagcagttt cttccattca accaactagc 420

tgcac 425

<210> 53211

<211> 353

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-041-Q1-K1-G3

<400> 53211

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 attttgaaga gacttgatgc tcccactaaa gctccagctt ggctgttgg ttctgaagga 180
 aaccgtccac cagcaaagtt tcctgttcct ctaccaccat caccttcaat gaaggatgac 240
 gagattcttg ctccatctca ggagctgagc aagcaagggt gtatcctgga ggctgntatt 300
 gaagcaagtg ctactgaaat tatcaatctc atggatagcc taaatgaatg gga 353

<210> 53212
 <211> 424
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-G4

<400> 53212

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 gggcggcaaa gcaacaccgg gagcctcact atgaccacga cgggggaagc aagcatgata 180
 attggagatg agaaagatgc aatttgctat ataaaagccg cattgtattg ctgcaaaagg 240
 actatacagt gctatcagga catagcgcaa tgcttgagga actgccgtaa aaatgtctaa 300
 caagaggcta tgctttctcc aactcgtaga tggagatcat aaagatgtta cgtagacct 360
 aatcatgcat agaccggagg agaaatataa gcttattagc ccatccataa ttaataactt 420
 cgta 424

<210> 53213
 <211> 424
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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<400> 53213

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 gagtttaatt ccaagctata tcagagactc ttcagttgct gtcattgtat tcgatgttgc 120
 aagcaggcag tctttcttaa atacatccaa gtggatagat gaagtctgca ctgagagggg 180

cagtgatgtt atcattgtgc ttgttgggaa caaaactgac cttgttgaca agaggcaagt 240
ctcgatagag gaaggagaag gcaaggcaaa ggaccttggt gtcattgttta ttgaaaccag 300
tgctaaagct gggtttaaca ttaaggcgct gttccgtaaa attgctgctg cccttcctgg 360
tatggagaca ctctcatcag cgaagcagga agacatgggt gatgtgaact ngaggctctgg 420
caat 424

<210> 53214
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-G7

<400> 53214

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tgctcctcaa ccccgcatgc aatttgacga tacacatcgg gtggtgaaag caaagaagcg 180
ttcagttggt agacaatcag aagctcaaaa cagggtcgaa ctgttcagac atctgcctca 240
atattcacat ggcaactaac taactgacct tgggtcaaaa ttttttcaa ctgatctgat 300
gcaccccttct gtgtacaaag tttgacttca atatttgtct ggtgacatat ctggtggcaa 360
tgctc 365

<210> 53215
<211> 165
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-G9

<400> 53215

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tcatgtacaa caagaactcc accgaactgc tcaaccgcct cgagtgggcc atggactccg 120
tcaagaagag gctcttagac agcctccacg acgtgctccc gaagc 165

<210> 53216
<211> 430

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-041-Q1-K1-H1

 <400> 53216

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 tccagttgct tctgataaga agactgggtga acgaccgcct gacaaagata gaaaaaaaga 120
 tgctcctcaa ccccgcatgc aatttgacga tacacatcgg gtggtgaaag caaagaagcg 180
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 gcatccttct gtgtacaagg ttggacttca atatttgtct ggtgacatat ctggtggcaa 360
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 ttctgaaaaa 430

<210> 53217
 <211> 221
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-041-Q1-K1-H10

 <400> 53217

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 cggaggcgtg cgatgagggg aacgaccagg acgagtgcgt gcagaggcag ctgctcgctc 180
 acgcgcacct cgactacatc tacacgcaag acacgggcaa g 221

<210> 53218
 <211> 424
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-041-Q1-K1-H11

 <400> 53218

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 aatgttgcac gacagaaagc agtcgatgat caaagaatta aactcctacg ttgctctaaa 120

gaaacagcag gcaagtgaaa acaagagaat cgatcttttt gatgggcaa gtgctgaaga 180
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 ccaagaaacc gtcaatgtgg gcacagaaac tgcagctgct ctgaaagcac agacagaaca 360
 aatgagcaga gttgttaatg agttggattc catccatttc tccatcaaaa aggcatctca 420
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<210> 53219

<211> 146

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-H12

<400> 53219

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 gcgtgcgagg aggggaacga cacggacgag tgcgtgcaca ggcggctgct cgtcgacgag 120
 cacctcgact acatctacac gcacca 146

<210> 53220

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-H2

<400> 53220

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 tcagcgagac ccacgacacc ctccgcttcg gcttcaatgc cggcgtcaag gccgacctcg 120
 cgccgccgca cccgctccag tccagcatcc aatcggaggc caagttcttg gcggacaaga 180
 agaagtttgg gacagaggcc atctacggat ccgccttgaa catccgcaag gatctcgatg 240
 cccaaatcct ctcaaggttc caaaggcccc ctggtgcttt gccatcatct ctgcttggat 300
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 aagattctga aggtttccgt caacctgaca tgcaccacgg aat 403

<210> 53221
<211> 353
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-H3

<400> 53221

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ttattggcaa aaatcgaaaa ggtcaatatg aaggaggaga aagaaataat agtaacgtgg 180
tcccgggcat ctagcattct acccgcaatg gttggccata caatcgcgat tcataatgga 240
aaagaacata tacctattta cataacaaat cctatggtag gtcgcaaatt gtgggaattc 300
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<210> 53222
<211> 390
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-041-Q1-K1-H4

<400> 53222

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gccaacatat gcatggggat ttctaatact tcaggatcaa ttgtagcaat gcttctaattg 180
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cttttttgcc tgagattttc ctaataaaat 390
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<210> 53223
<211> 243
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-H5

<400> 53223

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gatggagaag gcggacatcc ggcgcctcat ccacacagcg ctccgcgtcg gctaccgcca 180

cctggactgc gccgctgact accagaacga agctgaagtt ggtgacgcgc tcgcagaggc 240

att 243

<210> 53224

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-H6

<400> 53224

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tggaggaata aggaggagct gagcaaagga caccggatgc cggcgggtggg gctgggcgtg 120

tggcggatgg agaaggcgga catccgcggc ctcatgcaca cagcgcctccg agtcggctac 180

cggcacctgg actgcgccgc tgactaccag aacgaagctg aagttggtga cgcgctcgca 240

gaggcattcc agaccggact cgtcaagcgg gacgacctgt tcatacaaac caagctgttg 300

aactcagacc atggacatgt gcttgaagcc tgcaaggaca gcctgaagaa gctgcagc 358

<210> 53225

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-F9

<400> 53225

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tggagaagcc caagaaggct ccagcagcag ctgctgcagc ggcaccatag ggttctttca 180

ccatgtaata atactttcta gtgaaaaaca attttactag gcatggaaca ggcacgttag 240

agtgacgagg agaaaaaact atttttgtca tgcgtgggccc ggaataaatt gagtcaggaa 300

ttgcatggat tttgggccag gacgatttgc aaattggttg gattagagtg tggatggctg 360
attggacatt gtatcctatc tgcattctgt tcaactcagtt ggctaattca catttctctc 420
c 421

<210> 53226
<211> 198
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-E11

<400> 53226

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agagaatttt aaaggacaca ctgaaaggat ccaaactatc aaacacaaac aaacagggca 120
aacatttttaa aaaatccaaa cctaaaccca attcattcca cgtcctttta caactaaagg 180
accgccaaaa ccaattta 198

<210> 53227
<211> 136
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-E12

<400> 53227

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gtcttcttca ttcctt 136

<210> 53228
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-E2

<400> 53228

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ctcctcatcg gcgacttttc cgccggcgac aggaacaac gaaccaaacc acttctctgt 120

cgagaggcgt cgcgctcctc tcttcgccct ctgctgttat ttttcttaac ccggctttct 180
ctcgattgct gcgtaaagtt gaagatgagg aagctcaagt tccatgagca gaagctcctc 240
aagaggcaca atttcttgga gtacaagagg gagggcggcc accgcgaggc gctcgtcaca 300
cagcgctacc gcctcgtgga gagggacgac tacaagaagt acaatgggat atgcttaatg 360
gtgcaaaagc tcgttaacat cataaagcag atggacccaa gagacccttt cagaatccag 420
atga 424

<210> 53229
<211> 398
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-041-Q1-K1-E3

<400> 53229
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agagcattgt aaaataactt gtttcatttt ttggtttctg taacatgaat acatgacatg 120
tgatagtgt atataagatc tgtggactgg ggcgatatca gcgcattcta cacagctaag 180
ggttgcatag ttgcgagaac tgaagcatgt aaatgtcttt aaactgccat ctgattgaga 240
tgcatagta ctgctgttct ggaataagac atgtctgctt ttggggaaaa tgattcaaaa 300
aatgtttcgt ttgaactcag cgtctgctga aaatgaattt ggttcccgac cctgtttctg 360
gttggccgaa attcaaaata ataaagcana tggaccca 398

<210> 53230
<211> 347
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-E4

<400> 53230
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agagcattcg gaaacaactc gtccgattac tgggttctct gaacatgact acttgacatg 120
tgataggcgt atatctgac tgtggactgt tggcgatatca ccgcattcta cacatcta 180
ggtagcgtat gtgcgagaac tggagcatgt aaatgtcttt aaactggcat ctgattgaga 240

tcgggcacaa ctgctgatct ggcattgagac atgtctgcta tcggcgaaaa cgattcaaac 300
agcgttacgg tcgaactcag aggcctgctgt acatgaattt ggttgcg 347

<210> 53231
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-E5

<400> 53231

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ccatgttttt tttaaaattt aattaatatt ctttcttgca gtgcacagtc agtgagatgg 120
tatttatcta atatatcgtc ttctccaca cccattctcc ctttgacaat tgaagaaaac 180
tgcagccact ggaggtccaa gattatagag cgcagaaaag tctctcgtgt tgaaattttg 240
tctccatcct ggtgcataaa cggtttgctg gacagactgg cggaagagta caaagacaaa 300
gcgatgtatt ccagcagatg gctttgggtt ttcatactgt acaatttcat ttctgtaat 360
aaaatttggt caaccatgtc acagtgaata 390

<210> 53232
<211> 308
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-E6

<400> 53232

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ccatgttgga gataaaactt aatgcatatt ctttcttgca gtgcacagtc tgcgagatgg 120
tattgatcta atctatcgtc ttaatacaca cccattctac ctttgacact tgatgaaaac 180
tgaaggcact ggacgaccaa gattatcgaa cgcaaaaaag catgtcgtgt agaaatttta 240
cctgcatact gttgcgtaag ccgttagctg gacagactgt cgcaagagtc caaagacaca 300
gcatgtc 308

<210> 53233
<211> 425

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-041-Q1-K1-E7
 <400> 53233
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 aaggtgctcc gcgacaacat ccaggggatc acgaagccgg cgatccggcg gctggcgcg 180
 agggcgcgcg tgaagcgcat ctccgggctc atctacgagg agaccgcgcg cgtcctcaag 240
 atcttctctg agaacgtgat ccgagcgcc gtcacctaca ccgagcagcg ggcgcgcatg 300
 accgtcacag ccatggacgt cgtctacgcg ctcaagcgcc agggcgcgac cctctacggc 360
 ttcggcggtt aggctatgcc ggtcgcgctc gcgcctcgct gtcgtcgctg cgggtcttgg 420
 ttctg 425

<210> 53234
 <211> 407
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-041-Q1-K1-E8
 <400> 53234
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 tagcaacaaa aagttgactt caggtttcga tatgacctgt aatctccagt taccacaaaa 120
 gtgtggctca tggttccaat ctaacaataa ccatattaac tataatgaga tatttgtgtc 180
 gcaggggata taactataaa ttggacctta tagaaaaaaa gagaaggtgc attacaaatca 240
 ccaatcatatc atatagattg cccttgggtc accaaaaata tacacaaata gaaagccata 300
 agattaaaca catcatcacc cacgcgtccg cggacgcgtg ggccaaagcc aaagccaaag 360
 aatcctcttg acttgctgcc accaagcaag atggctcttg atgactg 407

<210> 53235
 <211> 216
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-041-Q1-K1-E9

<400> 53235
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 gggaatacaa catccaacta taagagatct atatctctag cgcctaataa tgttgaccca 120
 gattatgatg acactagatc ctgcgctcaa gctactacgc aatccttgtg taagacaaat 180
 ctgtctacct ctacctaaat ttgaaaaccg ggaaca 216

<210> 53236
 <211> 150
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-F1

<400> 53236
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 aaaatttcaa aacacaaaaa agacaaaaaa aaaccaaacc aaaaacaaaa acaaacacc 120
 accaaaaaaa aacaccacta caacatccat 150

<210> 53237
 <211> 302
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-F11

<400> 53237
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 atcgtcgttt tcttctcgg gcttgctctg gtcatgcgtt ttttgttggt tgacttaact 180
 tcattttact ggatgttgct ttccttagtc gtgactgtaa agaccttggc gttcccgatc 240
 ttaatggcct tgtactgctt tgcctttttt ccggttgggg ctttccctgt aggggtctgac 300
 cc 302

<210> 53238
 <211> 112
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-F12

<400> 53238

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<210> 53239

<211> 424

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-041-Q1-K1-F3

<400> 53239

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acggcaccgg cggcgagtc atctacggcg agaagttccc cgacgagaag ttcgtgcgca 120

agcacaccgc ccccggtgtg ctctccatgg ccaacgcggg gcccaacacc aacggctccc 180

agttcttcat ctgcaccgtc gcgaccctt ggctcgacgg caagcacgtc gtcttcggcc 240

aggtcgtcga gggcatggac gtcgtcaagg ccatcgagaa ggtgggcacc cgcaacggct 300

ccacctncaa aggtgggtcaa ggtcgtgac tgcggacagc tctcctagat ctctctgac 360

tggctctgac ggccgtcctt cctccgtcat cgtcgactcc atctgcgtcc gttcctttgg 420

atct 424

<210> 53240

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-F4

<400> 53240

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ctgggctgtc cgcggaggcg gctcggatcc ggatgcgtgc tcgcccagct ggcgcaggcc 120

ctccgccccg ccgcccgtcc cgccaggacc tactccgccg cggccaagga gataactgta 180

cgggaagcat tgaataccgc attagatgaa gaaatgtcgg cagacccttc tgttttcttg 240

atgggagaag aggttggcga gtaccaaggt gcatacaaga tatccaaggg tttgcttgac 300
aagtatggcc ccgatagggt tctcgatact ccgatcactg aagcggggtt cactggcatg 360
ggtgttggtg ccgcttacca tggctcttca cctattgtag agttcatgac atttaacttt 420
tcga 424

<210> 53241
<211> 313
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-F5

<400> 53241

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aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aagaaaaaaaa aaaaaaaaag agaaataaat aaaaaaaaaa aaaaattaac aacaacggat 180
aaaaaaaatt aataatgcta ccgtagtgac cccttggcta ttcggaatc tccgtcattt 240
tcaaacattt cgacttggga ataaacgtcg tttaggccat ttagcgggtg ggcaccaaaa 300
actttttcac ctg 313

<210> 53242
<211> 176
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-E10

<400> 53242

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tttgatctac gataagttct atctctagct ctacaggcag ctgatcctgc tgattaacaa 120
cctagtcata gatcagggtgc tttgtcaagc tcaacatcat ccacatcgac gatctt 176

<210> 53243
<211> 424
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-041-Q1-K1-F7

<400> 53243

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cggcgccatc ctggaaggga tcggcctgga gggacacttc tccaagccca acatcccgct 180

catgagggcc atactcgaca agctcgccac cctggggctg cccatctggt tcaccgagat 240

cgacatcagc aacaagttcg acgcgcagac gcaggccgnc tacctggagc aagtgtctggc 300

ggaggcatac tcgcacccgg cgcgcagcgg agtcatgctg tggacggcgc tgcaccccag 360

cgggtgctac cagatgtgcc tcacggactg gaaacctcag cacctgcccc cgggggacgt 420

ggtc 424

<210> 53244

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-F8

<400> 53244

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gatgacgcac ttccatagca tctctcccta acctgccagc tcggtcgacg tctgtgggta 180

ttttaagatc ttgatgtgca cattgcgcgg cgatgtacat gttcgttaaca ttagtcactc 240

ttcattatct ctctgcaaga taaacgcgca gactcaagcc gtctacctgg agcaagtgtc 300

gcgggaggca tactcgcacc cgccctcat cctaatactg ctgcggactg cactgcaccc 360

tatcgggtgc tacc 374

<210> 53245

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-C4

<400> 53245

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 tggcggccgt cgcgtgctg ggcgtgctct tcgcggcgag cgaggccgac gggacgtgca 180
 acgtcgaccg gggcacggtg ctgaggcagt gcgcgtcctg ctcgagcggc gcgccgagcc 240
 aggggtgctg cgacgcgctg aggaacgccg acttcggctg cctctgcagc aactactgga 300
 acaagctcaa gaacacgcca tacgccagct gcgccaaggc catcccttcc gcgtgcaacc 360
 tcccatacgc caagtgccag tagatggaga catggagtgc gtgaccggga cagcgaac 418

<210> 53246
 <211> 425
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-C5

<400> 53246
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 ggtcagggtga gaatagctca gcctggattc aaaaatcctc gatgggtgga tggtagagctg 120
 ttggtactca atggcaagag tacaattcca caccttggag gcgcagagct cggtttctctg 180
 tatagtgtac ctgagcagag ttttctgggt ctcttcgata ggcttaatat tcccagagtga 240
 tgagactcct aaaggaggca gactcctcac atgtagattg catgaacgcg cagaggccgg 300
 ccacagctcc aagtgaccga aacaggctctg gggggccggt tccccatcgt cttctgcctt 360
 ctgggcttcc tgccaatcct ttcttcgcac ctacttttta ggagctcatg tgcttaactc 420
 gtttc 425

<210> 53247
 <211> 376
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-C7

<400> 53247
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 tccgcggcga agatgtcggc gcgcggcaag ggcgggaagg gcctgggcaa gggcggagcg 120
 aaacgccacc ggaagggtgt ccgcgacaac atccagggga tcacgaagcc ggcgatccgg 180

cggctggcgc gcaggggagg cgtcaagcgc atctccgggc tcatctacga cgagacccgc 240
 ggcgtcctca agatcttctt ggagaacgtg atccgcgacg ccgtcaccta caccgagcac 300
 gcgcgccgca cgaccgtcac agtcttggac gtcgcatacg cgctcaagcg ccagggccga 360
 accctctacg gcttcg 376

<210> 53248
 <211> 283
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-C8

<400> 53248

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 ggtcaatact aaattaccca aacaaagcct aacagggaag tcaccagtgg caaattatgt 120
 actgatattt ataataatat actcaatcct gatgggttgt gcccataaac atacaaaggt 180
 ggataattga ggtcactggt gcggcgagac accctatacg tctgcgagac ctaccagctg 240
 caggttgact tacgtgagca ttatcctatg gatgcacctc atg 283

<210> 53249
 <211> 328
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-D1

<400> 53249

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 agtggcaact caacatccct gctggattca agcacatggt ctccaataac ctacaaacgt 180
 gggtaattga ggtcactgga gcagccggca cggtttacgc caccagacc taccagttgc 240
 atgtagacct gcctgagcat tatcctatgg aagcaccaca cgtcatcttg ctcaatccag 300
 taccaatgca tccacacatt tacagcaa 328

<210> 53250
 <211> 422

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-041-Q1-K1-D10

 <400> 53250

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 gttgcgccgc cgccgcgctt gcggtcgccc tcatcgctgt cgttgccggc gcaaccgcgc 180
 cggggtcgcc ggccgcgggc acgtgcgcgc ggaggggtgc gctaccgttc ctcgacgccg 240
 tcggatcccg ctgccccctt gtccggatcg agccgtcccc gcctctcgag gtgagaggag 300
 aggctgtgga tactgagttg aaccttcgaa ggaggggtgc ttcatactcc attctcttct 360
 atgctgcatg gtgtcctttt tcgagcaaat ttcgaccgat atttgaaact gtcagcacta 420
 tg 422

<210> 53251
 <211> 427
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-041-Q1-K1-D11

 <400> 53251

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 gatggcgggtg gccctccta cggcggcggc gctggagcag ctaagcagca gcaagatgtt 120
 cgacggcttc aatctccgt tccgccacca gagegccacc cttggctgcg ccatgacttt 180
 ctccatctac ctgccccgt ccccgcgctc caaccttccc gtgctgtact ggctctcggg 240
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 ccacggcatc gccctcgtgg cacctgacac ctncacacgt gggttaaata ttgaaggaga 360
 gtcagacagc tatgatattt gtgtgggtgc cgggttttat ttgaatgcca caaatgaaaa 420
 gtggaaa 427

<210> 53252
 <211> 419
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-D12

<400> 53252

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taaagcaagt ctagtctcta gaggaggagg cggaggggga ggccatgggc aaggacgacg 120
tggtccagag cggcgcgggc ggcggggagt tcgccgcaa ggactacacg gacccgtcga 180
cggcgccgct ggtggacgcg gcgagctgg gtctgtggtc gctgtaccgc gcggtgatcg 240
cggagttcat cgcgacgctg ctgttcctgt acgtgacggt ggcgacggtg atcggttaca 300
agcaccagac ggacgcgtct gcgtcgggtg ccggggctga cgcagcgtgc ggcagcgtgg 360
gcgtgctggg catcgctgg gccttcggcg gcatgatctt cgtgctggtc tactgcacc 419
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<210> 53253

<211> 344

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-D2

<400> 53253

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tctttgctc cttgttctct ttagcatagg catgggcatg gccaccgctg ctgcaaaccg 120
caaactgggt tatggcccg ggggaggagg tggcggtggt ggtagcgggtg gcggtggagg 180
cggtggttac ggaggaccag gctatgggtc cggatcaggg tatggtgagg gcggtggcag 240
cggaggtgct gctggagggt atggacatgg tggtagcggc ggcggcggtg gtggtgaggg 300
tgcgggagct ggtggctctg ggtatgggtc cgggcaagga tctg 344
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<210> 53254

<211> 431

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-041-Q1-K1-D3

<400> 53254

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 gcgacggggc atgcgctcgg agcccaaacc aggttacaac gagagcaagg ccatccctga 180
 ttccctgatg ccttcttctt tgagaaggcc tccgctgagg cgttcatgga gcgagtcgag 240
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 gtccaggagt tccaggcact acacgacaca cacttggtc cagatgagca ttcatagtat 360
 ntcgtcttcc atgtcaatta acctataaac tctttaataa tggacgtctc gatgatgtgg 420
 tatcatccat g 431

<210> 53255
 <211> 424
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-D4

<400> 53255

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 gagactgggc atgcgctcgg agcccagacc aggttacaac gagagcaagg ccatccctga 180
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 tcggtagtgg gcgaggtatt caacatcgtc aggcagtggc aaactcagca gcagaagcag 300
 gtccaggagt tccaggcact acacgacaca cacttggtc cagatgagca ttcatagtat 360
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 tatc 424

<210> 53256
 <211> 425
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-041-Q1-K1-D7

<400> 53256

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accctaccaa gtcgtccctg aacccgaacc tgtaccgccc gacatttgca ggatttgctg 180
acacggacat ctcgaacggc aagatatccc tgagaagcct gatcgaccgg tcggtcgctg 240
agagcttcgg agccggggggc aagacctgca tcctctccag ggtctacccg tcgctggcca 300
tcggcaagga cgctcgctc tacgtgttca acaacgggag ggcgcacgtc aaggtgtccc 360
gtctcaccgc gtgngagatg aagaagccgg tcatgaacgg ngcctgaaga tcttgaatta 420
atata 425

<210> 53257
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<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-D8

<400> 53257

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ccttgaaaaa aaactgttcg acttcagagg ataattgtaa aatggctatt aatgtgaaca 180
agtccatgc 189

<210> 53258
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-D9

<400> 53258

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gcgaggcatg cacagtggat cagagggaca agatcacaac ggactgcaga gagttcatca 180
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cggtgcccaa tctcgacatg gagtgcacat ttcgcctgct ctccaataaa cagaagaaga 300
agtacgacgt ggacaagatc cggcggctcg gcagcgtcct ctgcaatcca catccggtga 360

tgacgtaaaa tggggtgtgg cagtagtttc tgatggagtg catcgcggtca acaatatgga 420
gcttgaacta 430

<210> 53259
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-C2

<400> 53259

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tgcgaggcaa gctgcacagc aacacgggcc acgggcgcgg cctccgcctc cgctccacg 180
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ggtccagccc agtagtccag gtgacgaggt ccgcactccg caacggttct ggcgttctgc 300
agctgaggat agacgagaga agaagtgagg aattataata gtgatttaca aggcaacttg 360
aaagacagca gggttgcac cacaatgtc agtcccaac agtgatagca acatgcagca 420
gctagtc 427

<210> 53260
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-A7

<400> 53260

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gatatttgat gcatccaact atctacattc aacgggagtg gggcttatgc agacgggcta 180
atcatggtcg agttatacat ttagacaggt gatctcacag tgacatctct tgaaacttga 240
gaggcttcat atgggccatg taacacatgt ctaagcggaa atggaccact tcgctttagg 300
cgatagtgct tacatagtta agcccaataa gatactcatg acagatagtc caaatatctg 360
attcagggca tccttacacg ccgtgacatg aacacgttac ttgttctcaa g 411

<210> 53261
<211> 191
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-A8

<400> 53261

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tgccatctat gccaatgttt tacctatatg tctgtatcaa tgTTtcagtt aactgagatg 180
agattatgct t 191

<210> 53262
<211> 221
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-A9

<400> 53262

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gtgtgactta aattgtattt gttggctgta tttttacatc gttgagactg ggagaaaccc 180
tgTTTgtacc aattttattg gaattgcact acatgggacc t 221

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<211> 397
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-041-Q1-K1-B11

<400> 53263

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tgaagaaggc aggcaatggg gccgtggacg aagtggtgga caagtgagag atgagtaccg 180
tacagattat gatcctggta gaggtggTTa cggtaaagatg gttcagaggg aactagaagc 240

acaaagagaa ctagttgact atggtggatc tttccaacca aatgcaccan cttcctatga 300
 gagaggtgag cggaagagag gatacgggga ctctcattgg aatgacagan gagattacca 360
 gcggaaacgc taccggagca gcgatgaccg gtcagca 397

<210> 53264
 <211> 424
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-B12

<400> 53264

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 gaggcgagga cctccaggca cgcacctccc tggttcggcg gctccctcga ggccttctctg 180
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 ctca 424

<210> 53265
 <211> 422
 <212> DNA
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<223> Clone ID: LIB3079-041-Q1-K1-B2

<400> 53265

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 ggcggcagtc acggcgaggc gcagcagcag cagaagcagg gcgccatgat gacggcgctc 180
 aaggccgcga cggccgcgac cttcggcggg tcgatgctgg tgctgtccgg gctgacctg 240
 gccggcaccg tgatcgcgct cacggtggcc acccccgtgc tggatgatctt cagcccgggtg 300
 cttgtgccgg ccgccatcgc gctggcgctc atggcgggcg ggttcgtcac ctccggcggc 360

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cc 422

<210> 53266

<211> 393

<212> DNA

<213> Zea mays

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<400> 53266

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aacgaaccat gtctcgctgt ccttttcgtt agctggggtg gtgtgtccct ggtctcatcc 120

caatactgaa tctgtagcgt ttcttggtcg tgcaggatca tttcaagaag aagcccagct 180

tcccgataac cctcaagtac atcgaccga cctacattat cctgtccctc cggtcgaatg 240

cttctgacaa cgtctactgc actcttgtgg cccacagcgc cctccatggc gccatggcgg 300

ggtacaccgg cttcaactgtc gctccggtca acggcaggca cgctacatc ccgttctata 360

ggatcaccga gaagcataac aaggtggtga tca 393

<210> 53267

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-B4

<400> 53267

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gccgtcggcg ctgcagaccg cggcgggcag gatcagcggg gcgtagcctg cccatttcgc 180

gaggaccata taattccaag accctgatga tggccacaac tgcttatatc gatgattcct 240

gctcggaggt tattgatccc ccgaagactg aggtgctgga tgctgctgaa ctccctggtg 300

accatactca gaaccacca aaaccgaatg ttcgggtgtc tagcagcgtg cgtgaacttc 360

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atacatt 427

<210> 53268
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<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 53268

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gagttgaaga ttttgaactt ctgactatta ttgggagagg tgcatttgga gaggtgcgtc 180
tttgtagaga gaagacatct aagaatgttt acgcaatgaa aaaactcaag aaatctgaaa 240
tgcttcgtag gggccaggta gaacatgtca aagctgaaag gaaccttctt gctgaagttg 300
atagtgttta catagttaag ctctattatt ctttccaaga cgaagagttc ttatatctca 360
tcatggaata ccttcctggc ggngacatga tgactntact tatgcgcaag gacatactaa 420
cagaagatga 430

<210> 53269
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-B7

<400> 53269

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gcgcgagcgt caaggcggcc agcaccgggt ggctgcccat gtccaggaac tggggccaga 180
actggcagtc caacgccatc ctcgtcggcc aggcgtcttc cttccgcgtc accgccagcg 240
accgccgcac ctccacctcc tggaacgccg ccccgagcac ctggcagttc ggccagacct 300
tcgagggcaa gaacttcagg gtctgatgca tgggatggga tgcgatggga tgggacttgg 360
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<210> 53270

<211> 395
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-041-Q1-K1-B8

 <400> 53270

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 cgtggagggtg agcttcgagg tgctgccggc ggccctggcc ggtgccgaga cgctggaccc 180
 ggcgctggcc tacgacgcgg agaagctgtg cggcgtgaag cgcgcgacg tgaggggagg 240
 cgtggggccg ttccggctgt gggctgtggc ctncggcaac cgcaaggaga gaaccgacgt 300
 gttcttcagg gtgttcaagc ccgtcncgg cagcgacaag cccgtggtgc tcatgtgcac 360
 cgaccctacc aagtcgtccc tgaacccgaa cctgt 395

<210> 53271
 <211> 429
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-041-Q1-K1-B9

 <400> 53271

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 gctgaagtca aatggatcac ccaaggttgg tgttactggc tattgcatgg gaggtgcttt 180
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 ggagcatgac agttttgttg gtttttcaga tgtcactgca gccaaagtcg tggaggagaa 360
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<210> 53272
 <211> 268
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-C10

<400> 53272

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aattgaaatg aaaagaaaaa aagtactcca tctgttccaa attaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa actggaaaaa ccaagaaaaa acccaaataa ataaacttgc aaaataataa 240
cccctttaa cagctggcgt aatcccaa 268
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<210> 53273

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-C11

<400> 53273

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cctggccaga ttgaactctt cacacatgtt ccagttctgc ggaactttgt cgagcacctg 360
aaacgaaaaa atttcaacgt ttgcgcttgt taccttcttg attcacagtt tgtcagcgat 420
gtaacaaaa 429
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<210> 53274

<211> 300

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-C12

<400> 53274

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gattgcaatc tatatatcta gactaggaac taacatgtac tagattgtat tgtcatagct 120
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gcttctgtgt tggaggacgt ttgtggatct agagggatgat ctgttgatca caatgccaac 180
tctatggtgt ttacaagaaa actaatctac tgcattggaac accttgaata cagcttggat 240
gataggtttg atgaacagct atagaactac ctatgatgatg attatctaga gtacgattgc 300

<210> 53275
<211> 389
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-G8

<400> 53275

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gtgcagtttc agctgactgt caatgtagtg gcaactgtag tgaacttctc ttcagcctgc 180
tttacaggaa atgcaccact aacagctgtt cagcttcttt gggttaacat gatcatggac 240
acccttggcg cgcttgccct agccacggag ccacctaata atgacttgat gaagagagag 300
ccagtaggaa ggacagggaa attcattaca aatgtgatgt ggaagaacat tcttggtcag 360
tctttctacc agttctttgt gatgtgga 389

<210> 53276
<211> 368
<212> DNA
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<223> Clone ID: LIB3079-040-Q1-K1-G9

<400> 53276

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aatgacacta tgcaatgtga tctggaacct ggtttcttgg gtgcgacgct tgtagccgtg 180
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tcggtgtccc acctcgtctg tggcgtgggg cgctggagcc cggctctggtt ggggtgggaa 300
gccctttaa ctggtgtcac ttgcatttta ccttttccat cgcttggtat tgtgagtgg 360
cctatatc 368

<210> 53277
<211> 353
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-H1

<400> 53277

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gcgggttcgtt caagtcaaat ggcttgctac aagaggagta gaagaagaat ccatcttgca 240
agctttgcct gctgatattc gtcgggatgt gcagcgtcat ctttgattgg acctcgtag 300
acgtgtacct tttatctctg agatggataa ccaacttctc gatgccatct gtg 353

<210> 53278
<211> 353
<212> DNA
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<223> Clone ID: LIB3079-040-Q1-K1-H2

<400> 53278

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ggacatggat gaggggatga gacaccgtca actcacatct catcttcaag aacgtgtgcg 180
gccgttcgtt caagtcaaat ggctcgctac aagaggagta caagaagaat ccatcttgca 240
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<210> 53279
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<212> DNA
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<223> Clone ID: LIB3079-040-Q1-K1-H3

<400> 53279

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<210> 53280
 <211> 418
 <212> DNA
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<223> Clone ID: LIB3079-040-Q1-K1-H6

<400> 53280

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 gacacgcca gcttccaggc cgagaagatg gccaaccta acaacggctc cgtcagggga 360
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<210> 53281
 <211> 362
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-H7

<400> 53281

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gacctgtggc actaccaagc tctgtgtcac aattccaagg atcctagagc ttgctgaaga 300
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ac 362

<210> 53282
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-H8

<400> 53282

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aggccaacag gttgagttct tcagtcatga attccggtgc cctgtctatg tcaaagatat 180
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tgctgttgct cgtggatata accccagtat aatcaaactc gcgtctgcat catcggttaa 360
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tggtatcaag ccaatatt 438

<210> 53283
<211> 177
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-H9

<400> 53283

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<210> 53284
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<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-A1

<400> 53284

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gcctgggctg aaggcttcag gggtggcaca gacaccggtg gccgagaaga aggtattccc 180
tgtgaggttg gggaagttca agaattgtcg aacctatggt gcggtggaag gtggccatgc 240
caatgccaat gccaatgcca atgctaattc caggggtgtt actagggatg aaggggagag 300
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<210> 53285

<211> 261

<212> DNA

<213> Zea mays

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<400> 53285

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aaaaaaaaa aaaaaaaaag acaaaaaata ataaaagatc caagctaaca agctcttaca 180
tgacgacgtc atatctcatg aggtaatgcc acctaaaatc aattcaatgg tcccatttat 240
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<210> 53286

<211> 289

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-041-Q1-K1-A12

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ggtgacggtg gactacgtga acgagggcgg cgccatggtg cccgtccgcg tgcacaccgt 180

gctcatctnc acccagcacg acgagaccgt caccaacgac gagatcgccg ncgacctcaa 240
 ggagcacgtc atcaagcccc tgatccctga gaagtacctc gacgagaag 289

<210> 53287
 <211> 307
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-A2

<400> 53287

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 cgaaataatg aatcaattgc tgatgctagc taaagtaagg ccttttgggc aagataagca 180
 gcttatgaac tggaatcacc atcttattga ctgatttgc tcccccttat taaaacagcc 240
 ttgctgggat tgaatcgctc tgccctgcga tccaatcgct ttcgactatc gaatttgctt 300
 tcagcat 307

<210> 53288
 <211> 376
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-A3

<400> 53288

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 atatttgatg catccaatta tctaaatcca acaaactctg gtattatgct tactgtataa 180
 tcatggtcgt attatTTTTT agtctgttga tatttcactg gcataaattg tttcttctgt 240
 gctttcatat ccactatgta acccatgttt tattgtttgt agagaactac aatttatgct 300
 caagtcaatg ctgctcttcg caaaataaga gacacatcag agtttgtcca atcttttgca 360
 tcagagcatc ttaaga 376

<210> 53289
 <211> 336
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-A4

<400> 53289

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ccctccgccg ccaccatgtc gctgatcgcc ggggaggact tccagcatat cctgcgtttg 120

ctgaacacca acgtggatgg gaagcagaag atcatgttcg ccatgacctc aatcaagggt 180

gtcgggcgcc gcttctccaa catcgtctgc aagaaggccg acatcgacat gaacaagagg 240

gccggcgagc tgacgcctga tgagctggag cgctgatga cggtcgtggc caaccctagg 300

cagttcaagg tgccggactg gttcctcaac aggaag 336

<210> 53290

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-A5

<400> 53290

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aatgctcgta cagatgtgaa gcctgaccat tttgctcgtg aagctaagga gttcttacgc 120

acgaggttga ttggcaaaca agtggctggt gaaatggaat actctcgaaa gatcagcact 180

gtagatggac agagtgtgc tccaacagca aacatggctg atacaagagt tttagattat 240

gggtcagttt ttctgggttc accatcacag actgatggag atgacacatc ttctgctccg 300

agctctgcta gccagcctgg agttaatgtt gctgagcttt tgctctcacg aggctttgct 360

aaaacatcta aacacaggga ttatgaggaa aggtcacact attatgatgc tttattagca 420

gc 422

<210> 53291

<211> 322

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-G7

<400> 53291

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 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaataaaaa aaaaataaaaa aaaaaaaaaa aaaaataaaaa aaaaataaat aaaaaaaaag 180
 gggggcgga tctttgtagt gatatagggt agattctcta tgactaggag tattattctt 240
 ttttgagggc ctccctaaat gagatagttg gtgatgtgaa ctatcagtgt gagtttggaa 300
 aaccctgggt gtgccccctt tt 322

<210> 53292
 <211> 399
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-F12

<400> 53292

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 tcaatcgctt caagggcacc cacctgctca ccattccaga cttcttctact tctgcggagg 180
 cgaacgcttt cattgatatc gctgagtcga tgggcttcac gcaccacagc tgtttggggc 240
 cactaacggg tgaggcttac atagacaact aacggatatc tgtgacagat ccattgcttg 300
 gtcaagccat ttgggaatca ggaataaaca ggattcttac agacatcagc gtatctggca 360
 aattagcatc aggactgaat ccaaatatca ggttctaca 399

<210> 53293
 <211> 337
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-F2

<400> 53293

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 gcaggagct cagctcgcat caggcaataa ctatatctag ggtcatctat acacatccat 180
 gtgggaagga ttgcgaggca tggctgaaat ggatggtgca tgtactagct cgtagcagag 240

caaggcacgg agattatgag agctacaatg tgcttctcag attgacgatg cacagttgac 300
 tgaggtgaaa gagatagcga tgaccagatt ggaaaga 337

<210> 53294
 <211> 222
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-F3

<400> 53294

aaaaaaaaa ataattatac cctactttat catagaaaag atgaaataag aaaaaaaaaa 60
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 aaagttaaat aaatttaatt tgatgtcagt cgattttctaa ctgaacgtgc tgtcaaaacc 180
 cttcccttgc ttaacttatt tggcttactt ttgttatggc tt 222

<210> 53295
 <211> 433
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-040-Q1-K1-F4

<400> 53295

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 cagaccgtgg gaaggacaat tcatattgtc aatcttgatc cagctgctga gcacttcgac 120
 tatcctgtag atatggatat cagagagctg atttcattgg atgatgttat ggaggagatt 180
 gggttggggc caaatggcgg tctcatctac tgcattggagc accttgaaga cagcttggat 240
 gattggtttg atgaacagct agagaactac ctagatgatg attatcttgt gtttgattgc 300
 cctggccaga tngaactctt cacacatgtt ccagttctgc ggaaacttgt cgagcacctg 360
 anacgaaaaa atttcaacgt ttgcgctgtt taccttcttg attcacagtt tgtcagcgat 420
 gtaacaaaat aca 433

<210> 53296
 <211> 332
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-F5

<400> 53296

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aaggaaatca aactgctgg ggcagctttg gctgatgatg cagaacgatc aatctatgat 120
aaatatggag aagcaggtct gaaaggtgct ggcattggca caggagatta ctcaaaccgc 180
cttgatctat tctagtcctt ggttgaagga ttccgtggta tgggtggaat ggggtggcgg 240
cttgctgtcc gtaacagacc aatgcaaggt gatgacgaga gctacactct ggtactcaat 300
ttcaaggatg cgggtgtttgg tgtggagaaa ag 332

<210> 53297

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-F6

<400> 53297

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attcggatca ccctcttact ggtgctgagt atctttctga ttgtgccatt tctcgctctg 120
gcatgacaag gcatgtattg cttcaccggt gaggaacatt ggggcagctt accatggctc 180
tgctcgctact acatacagat catgactggt ggtgttctct cgccggcaaa tgcagcaaac 240
caaccatgtc tttcctgtgt ggtgtggctg ctgcatatgt gacaggaaaa gaagcacggc 300
ggtgaagggt tcaactgtgc aatgcgtgat gctccgatac catgaactcc tcaccgggcg 360
cataaccatg ctaagattta tcagggttat gataa 395

<210> 53298

<211> 335

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-F7

<400> 53298

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gcaaaggcag gcgcgccgag ggtctcggcg gccagctgg tgactctcgg gctatcactc 120

ctctgcgctg tcgccggccc ggccgccgcg cagaactgcg gctgccagcc aaacgtatgc 180
 tgcagcaagt ttggctactg cggcacgacc gacgagtact gcggcgacgg gtgccagtcg 240
 ggcccgtgcc gctcggggcg cggcggcagc agtggcgcg gtggtgcgaa cgtggctagc 300
 gtcgtcaccg gtccttctt caacggcatc aagag 335

<210> 53299
 <211> 413
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-F8

<400> 53299

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 ttcaggttca tggatggaat tcaaacttgt ggggtcccta aatgatttga aaatgatggg 120
 attccatcag caagcagccc atgcatggac aaacttgctg gtttcaaagc tgcgttataa 180
 ggcaatactt cttattataa tactgtaatt cagaagacac aaaacacgcc acgaaaccac 240
 gcgcgtcacg ctcatctgga agttgatgca acgaacctaa tgacgtaact gacgcctac 300
 catgcacaac ggaaattgag ccaggtatga atctcactgt agctagctct gattgggtcag 360
 tttattgaga cgatccggac gctgctattg acaaactgtc atgggggacta ctg 413

<210> 53300
 <211> 428
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-F9

<400> 53300

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 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aggggagaaa attttaaggg atccaaaatt aacaaaccaa 180
 aaaaaggggg ggattatatt taatataggg ccccttaaatt ccatttaatg gaccgaattt 240
 ttaaacccttg gggactggaa aacccttgag gttccccact ttatacactc ttgggcattg 300
 gaaaattttg gaagttgggt aaataccaaa agggccctaa ccaaccgctt ttccaaacgg 360

ttgaaaaccc aaaagggcaa atggaacccc ccttgaaaag gggctttaac cccgaaggtt 420
atggggga 428

<210> 53301
<211> 338
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-G1

<400> 53301

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ggaaaggagt tctgccgcta aaaaggcctt cgcgtcctct tgtgctactg ttttgaaata 120
cgctagtcct ccccaggctc agaagcttat cgaagatact acgtctctgc attcaggtgg 180
gaaaaacgat cagttgtctg gtgcaattct tattaagcc tacttgagca atgcatcgga 240
tattcttggt ggatataatg cgggtggttat ccctgtaatt tttgtgtcga gatttgatga 300
tgataaagac accagtgcctt tatatgaaga actttggg 338

<210> 53302
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-G11

<400> 53302

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acaaatttat tattcctgcg attagcaatt atgctggggc gttcttcac cgtctttttg 120
cttccatctt cgccactggt attttgagc ttcgatggag tgggtgttggc attgaggatt 180
ggtggagaaa tgagcagttt tgggtcattg gtggcacctc tgcacatctc tttgctgtgt 240
tccaaggtct cttaaaagtg ctagcagga tcgacacaaa cttcacggtc acatcaaagg 300
caaccgatga tgatggtgac tttgctgagc tgtatgtgtt caagtggaca actcttctga 360
tccccccac cactgtgcctt gtgattaacc tgggtggtat agtggctgga gtgtcgtatg 420
ct 422

<210> 53303
<211> 140
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-G12

<400> 53303

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acctcgctag tggccggtcg accctggcta ggatgcacac tcacgcgatg cggatatttc 120
ccacgcgtcc gaaactatga 140

<210> 53304
<211> 434
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-040-Q1-K1-G2

<400> 53304

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tgccatgtaa cattacgaag cttttatcaa agctacgact tctgcatgaa tttcaagaca 120
gcagtgagca gacggatctt ccttgccta ctgctggatc accgacattg cggatgtcag 180
cgctcagtga attgcagaac agtctttcaa actgatgcgc taccatttcg tattggaaaa 240
caaggacaag cggttcggcc cagaagtgtt ttagtactcg agctgcatgc aggccattt 300
agcacgatct ggctatgact tcctacatgg ccagaagcc gtcgtctact gatcgctcca 360
gcttcttctt ccttcgctgc cgctgggctg gtaacattca ttcgcggacc atnctgcctc 420
gatcgaagtt agcg 434

<210> 53305
<211> 391
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-G3

<400> 53305

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 tttgacaaaag ttcccagtgga ttacccccca gttttgcggg cacagattct tggttgggtt 180
 tcaagtagcc ctactgatat agagagccat attagacctg ggtgtattat tctaacaata 240
 tatctacggt tagttgagtc tgcattggca gagctttctg agaatatgag cctgcacctg 300
 gataagcttt tgagtagctc cactgacaac ttttgggcat ctggcttggt atttgtgatg 360
 gttcggcgtc gcttagcttt tatgctcaat g 391

<210> 53306
 <211> 369
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-G5

<400> 53306

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 aaaactgcag aagttaaaag gcaaacacaa ttgataagt ccacggaagt tggtagagcc 120
 gatacaacca aggaaaatga ggagaagagc agcagtgttc cagaaatact caacgcagca 180
 tgtagtaaca aggagaaacc caacaaaatc gcaacagacg gatgatgcct tggctagtgt 240
 actgggaaaa tgagatagct tctggaacgg acttcaactt gaattcctga aatcataagt 300
 tcgatgtgag caatgtcaag aaaccacaat tggatcatggg ttctctggca tttctcatg 360
 gaagtgaag 369

<210> 53307
 <211> 423
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-G6

<400> 53307

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 ttcagaatct tcagacctgg ccagctgaat actgttttac cataccgata gatgttcaat 120
 ctgttaatac tgatcgtgca attattactt gtcttggttag gctgggattg cgaagaaaga 180
 gaacatcaag attcacgggt tctaaggagc ctgtaaatgc ttgtgcccta tattgtgtgc 240

ctccacatat tggggagctt gaagcatcga cagttactag tcattgctta cttatataag 300
aacataagta gtatttgcta ttgtcaagtg tgccttgctt gatgcaagtt gtgttttcgt 360
atcattatta ttatgcacgg tcatcgtacg tgtatggctt gtatgggtta ttgccaactt 420
aat 423

<210> 53308
<211> 206
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-D4

<400> 53308

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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaataaaaa aaaaaaaaaa aaaaaaaaaa aaaaatataa acaaattaat 180
aaaaaacttt aaaaatacaa aattaa 206

<210> 53309
<211> 356
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-D5

<400> 53309

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gaccggacca agcggagttc tgtgatgttg ccatacactt ttctgccaac aatggcaaca 180
aggaaactga gggatgcagc aaacaagatg aaagagatac ttggtgacta tgatgctatt 240
catgtgagac gaggtgacct actgaagaat aggaaagata gatttggagt tgagcgaagt 300
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<210> 53310
<211> 440
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-040-Q1-K1-D6

<400> 53310

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ccctgttctt tgggcatgga gctgatcaca aatgtcaccg agtacgagaa gctcggaag 120
gagaggctgc cgaagatggt gtacgactac tacgcctccg gcgcagaaga tcagtggacg 180
ctcaaggaga accgggaggc cttctccaga attctgttta ggccacgggt actgatcgac 240
gtctcccgta tcgacatggc cacaaacatt ctgggcttca gcatttccat gcctatcatg 300
atcgctcctt cagccatgca gaanatggct catcctgatg gagagcttgc cacggcaaga 360
gctgcagctt ccgcaggaac aataatgaca ttgtcctcat ggtctacttc cagcggtgaa 420
gaggtcaact cagttgggcc 440

<210> 53311
<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-D7

<400> 53311

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gagaatgcct tcgcctccta cggcgagatc ctcgactcca aggtcatcac cgaccgggag 120
acggggagggt cccgcggctt cggcttcggt accttctcct ccgagaactc catgctcgac 180
gctatcgaga acatgaacgg caaggagctc gacggccgta acatcacctg taaccaggcc 240
cagtcccgtg gcggtggcgg tggcggcggg ggctacggcg gcggtcgcgg cggcggcggc 300
ggttatggtg gcgggcgccg tgacggcggg tatggcggcg gtggcggcta ccgcggtcgg 360
cgcgaagt 368

<210> 53312
<211> 278
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-D8

<400> 53312

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 actaaaattt atttaggggc ttatcatttt gttaagaatc atttggatgg tgaccatta 120
 ccatctctag ttgtggctcg ttattgcata gaagctagcc gacagtggaa gatcggcttt 180
 gtacagggat gttcgaaact tcgaatcagg ttatttgtgg tgtatatata atgccaaatt 240
 accaatcaca agaagtaaaa aaaaagtcac tcaactgtc 278

<210> 53313
 <211> 340
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-D9

<400> 53313

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 acagtgatcc tggctctcta gtacagcttg gttgtgggac ggtctctgga gccctagggg 180
 caacatgtgt ttacccttta caggttatca gaacaagact gcaagctcaa caagccaatt 240
 cagaatctgc ctatagagga atgtctgatg tcttttggag aaccctacat catgaggggtg 300
 tttctggatt ctacaagga attctaccaa atctccttaa 340

<210> 53314
 <211> 365
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-E1

<400> 53314

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 accaagatat tagccctcct tgcgcttctt gccctttttg tgagcgcaac aaatgcgttc 120
 attattccac aatgctcact tgctcctagt gccattatc cacagttcct cccaccagtt 180
 acttcaatgg gtttcgaaca cctagctgtg caagccaaca tgcaacaaca agcgcttgcg 240
 gcgagcgtct tacaacaacc aattgcccaa ttgcaacaac aatccttgcc acatctaaca 300
 atacaagcca tcacaacgca acagcaacaa cagttcctac cagcactgag ccacctagcc 360

atggt

365

<210> 53315

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-E10

<400> 53315

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tactctgcga aatgctgaat acaggctttc ttttgaaaga aatctagaac tgcctgaaga 120
aggtgtagaa tgcctaaaaa gtgatgtcac tgaagataat catcataaca tcaatttggg 180
aagacctgtc actattttta gattatccga agaagacatg cctcaggacc ctggaaaaac 240
cgatgaagca tcatcttatg aaaatatggg agaagagctt ggtgacttaa caccacaggc 300
agaggagtat attattcaga tgcaatctca tttgaatgcc atgaaaaagg agttacatga 360
tctcaggaga aagaattctg ccttacagat gcagcagttt gttggggagg aaaaaaacga 420
c 421

<210> 53316

<211> 227

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-E12

<400> 53316

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taataattcg tgtgaaaaag ttgattatat ggttcctgac aaaaaaaaaa aaaaaaaaaa 120
aaaaacaaaa aaaaaaaca aaaataaaca aactaaaaaa aaaaaaaaaa aaaaaaaaaa 180
gacaaagaaa tactgcattt acgaaaaaaa acgaaaaaaa ggcattt 227

<210> 53317

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-E3

<400> 53317

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gcaaaagaaa ctcaggtgcc cacacaaagt gctaggtttg ctattcttca cagttctgat 120
tttttagcatt taaccaaagc gtttgtgtat ccttaaaagg agagtgtttt ccaatgcttg 180
aacttttgta gtaagggtgt gctacatcaa atccagcgtg tttaggatac tgctacatac 240
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tagatttttc tctctttttg gggacattct tgatcaaata agtaattatt gcttgtgtag 360
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<210> 53318

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-E4

<400> 53318

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ggaggcccat cgaggaaccg cgcggggaga tatggcgctt ctcgaggagg ccgagcgagg 180
acgggacctc tgatgccatg gaagtgcacg ccgtcgcccc gagagagagc aagaaggcgg 240
cagagggtccg cggggacagg ttcggcatcc cgcggtgcat cgaggtgatg agcgccatgg 300
cggagctgtc gccggtggag aagtcgctgg cggccgacgt cttcttgga cgcagcaacc 360
gggagatctt cctctcgctg agtgtagata ttaggccaat ctg 403

<210> 53319

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-E5

<400> 53319

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tctctgtgta tatgatgggtg cccattctgt cagcaatcca attgaatctg ttgttgagaa 180
acagaagcgt ggttctgac ttttctgtac tgcttgtgag atggctgttg tctggataca 240
gaatcagctc cgtgaaaaca tgacaaaaga actcattttg aattatgcta atcagctctg 300
tgagcgtctc cctagcccca atggcgagtc aactgttgat tgccatcaga tctcacagat 360
gccaaatctt gcattcacca tagcaaacat gactttcacc ttaacaccag agcagtacat 420
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<210> 53320

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-E6

<400> 53320

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cggcgacggg atttcggtgg caggccgggt gaagtgaagt gaatcctgaa ttgaagggtcc 120
tgacatgtgg gccggggcag gccggactcc aataaaaacc agataaactc atgtagagct 180
ccttgatcta tctacttttg gcttttcttc cgttctcttt gtcacacct agcttttctt 240
ctttcatcct tctctgattg gttgtttata cacaaacaca gacacggtag cagatagaaa 300
aacttggcat ttttgcttt gcacagagtt gattcgggtg acatcagggg tgggtttgag 360
aaggacacgc ggattttttt tttctctcaa tg 392

<210> 53321

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-E7

<400> 53321

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gccatcatcc tgctccgct gggggtgttc ctcaagtacg ggtgcgggca cgagttctgg 120
atctgcctgc tctcacctt gtcgggtac atccccggca tcatctacgc catctacgcc 180
atcaccaaga acacctagct agtcacctt gccgactacg atccatgtct atgtatctgt 240

gtctgatcat atgcctgatg ccgacttggtg ctgtatgtcg ttgcttgaat tcagtcgagt 300
tcttgggtctg ctaccgtacc caccctatgc atcatctgtc accgcgacgc agtaatcata 360
gta 363

<210> 53322
<211> 337
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-E8

<400> 53322

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aaaaaaaaaa aaaaaaaaaa taaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
taaaaataaa taataaataa aattaaaaaa ataaataaaa aaaataaata aaaaaaatat 180
aagctattat caagatctac taaatagtaa tattttggta ctattatcaa tgtctatgta 240
tctgtatatg ctcatattct tgatgctgaa ttgtactgaa tgatgttgct tgaattcaat 300
cgtgttactg atgatattgc ctattcaata gatgcat 337

<210> 53323
<211> 329
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-F1

<400> 53323

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aaagggtgctg gcatgggcac aggagattac tcaaaccctg ttgatctatt cgagtcctctg 180
tttgaaggat tcggtgggat ggggtggaatg ggtggcggtc gtgctgtccg taacagacca 240
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gtggagaaaag agattgagat caccagatt 329

<210> 53324
<211> 317

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-040-Q1-K1-D2

 <400> 53324

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 gcttatacat tgacttggag cggcatctga ggttccaacc atcataagag agatgatggt 240
 acggaagagg gagcgcgact gccagaacac gatgcgcatg acgacgagca tgacggacta 300
 cgcgctggcc gacgcgc 317

<210> 53325
 <211> 443
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-040-Q1-K1-B8

 <400> 53325

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 tcatcatcaa caccttctac tccaacaagg agatcttcct ccgcgagctt atctccaact 180
 cttccgatgc gctggacaag atcaggttcg agagtctcac tgacaagagc aagctcgatg 240
 cgcagcctga gcttttcatc caccttgtcc cagacaaggc cacgaacacg ctctccatca 300
 tcgacagcgg catcggcgatg accaagtccg accttgtcaa caacctcggt accatcgcca 360
 ggtccgggac gaaggagttc atggaagctc ttgctgccgg cgctgatgtg tccatgattg 420
 gccagtcgg cgtcggtttc tac 443

<210> 53326
 <211> 77
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-040-Q1-K1-B9

 <400> 53326

aaaaaaaaa taattaaaaa aaaaaaatat aaaaaaaaaa aaaaaaaat aaaaaataa 60
gggaggtcaa tctagaa 77

<210> 53327
<211> 287
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-C1

<400> 53327

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ctgttgcca tggagtactc atggctctct gtttttggca ttataggcaa catcatctca 180
tttctggtgt tcttagcacc attgccgacg ttgcttcgtg tgtacccgaa gaagtcgacc 240
gaggggttca gctcgggtgc agatgcggtg gctctggata gctgtac 287

<210> 53328
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-C11

<400> 53328

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tcgcgcgggc gcggcggcgg ccggaggagg agaacaccgc cgtcagcacg tcaccgtggc 120
gtgcggtggt ctgactcggc cgagtaccag gcccggtgcc tgccgagctg gccacggcc 180
cgggacgccg aggcgcgggt gacctgtgc agctgcgggc ggctcttcgt ctctcgtccc 240
gactgggctc gcggggccgg agtgcaactg gtggggcgct gccgcgcggc agcatgcgac 300
gccgaggcgg acgaggagcg ccagggccga ggtcgcgcgc gtgcccacgg gcaaggggaa 360
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<210> 53329
<211> 418
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 53329

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gctctctttg acagcgtcag tggcgcgcaa tctccaatgg cgactgtccg tcgctacggc 120
tgtggaggtg tgcgtgaagg ctgctgtcgg ggctcctgac aagcttggcg actgtccctt 180
ctcacaagg gtgctgctca ctctggagga gaagaaggtc ccttaccgga tgaggctcat 240
tgacctcagt aacaagcctg gatggtttct gaagatcagc ccagagggca aggtgcccgt 300
gtacaacagc ggcgatggca aatggattgc taattctgat gtgatcacc aagtcacga 360
ggagaagtac ccagccccgt ctctggcgac gctncagaa tacgcatcag tgggatcg 418

<210> 53330
<211> 387
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-040-Q1-K1-C2

<400> 53330

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tccatttggt aaatattgcc ctgccgattt atggctgtgg ctagtgaacc ttttgcagcc 120
gttatttgtc cactgtcagc aagctcttaa ttattcatgg tccagtcttc ttcattgaggg 180
tcgggctaag gttcctgaca gcattggtaa tctttctggg tcagaactga aggtagaggt 240
aatggaagaa aagttgctac gtgacttgac tcgtgaagta tgttctgtcc tttgggcttt 300
atcatcacca ggcttanata atggactttc atccttggaa caacttggac cttncaccg 360
atggattctg ttttgaagaa tctggag 387

<210> 53331
<211> 426
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-040-Q1-K1-C3

<400> 53331

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cctgccccgc ggagagaccg gcgaccgaca acggcaccgc gccaggcca ggcggggcgt 180

cgtcggggcg tcccgccgcg acacggctag ggaggtcggg ggcggcggtg gcggtagctc 240

tggcggtgat cccgtgtgtg ctgttactgt gaccttcaga tgtgtgtctc gtgcgatgta 300

gtaggatcag tcgtagctga agctactggg agctggaaga gtacatacgt atagcgtgag 360

taacgaacac tcaaaaacag ntgtgctatg tggatgcctc ttgacaagac aaagagcaat 420

gggtag 426

<210> 53332

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-C4

<400> 53332

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aaggcgggtg cagcatccac ggcgccggcg actggggcgt ggagctcttg cgggtgctgct 120

ccgcccaggc gccgtccgac gtgctcgacg ctagcggcgc gtgcgccacg gtggcgcaga 180

ccgctgggct cgtctccacc gcctgcgaca tcgtcgctag gaaagagagg catgggatgg 240

tcgtgtcttg ccccttcctg ctgtacctcg tctcgctcga ggataaggcc gcgcagggtgc 300

gatcgatatg caaacccctg aagcctcttg ggattcattc agtgagcttg catcctggcg 360

catccattga acaccagatc tctggactga aaacttgtga gccggag 407

<210> 53333

<211> 440

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-040-Q1-K1-C5

<400> 53333

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attccggtgc cttatttcac aagacaaaaa aagtctcaag ggtcttgatt cttgtatgaa 240
ctcaagattt atggtggatc ttggagctgt gggatgctaa gcctgggtcta gctactagat 300
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tagttatntg caacaatgaa ggaacatcta atgctnaata ttgatgacct aagcattctt 420
gagcctaacg aggtcattgg 440

<210> 53334
<211> 338
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-C6

<400> 53334

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gcacctacgg cgaggtcctc gagtccaaga tcctcctcga tcgggagacg cagagggtccc 180
gcggcttcgg cttcgtcacc ttctccacgg aggaggcgat gcggaacgcc atcgagggca 240
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gccgtggagg cggcggcggt gggtacggtg gtggccgt 338

<210> 53335
<211> 375
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-040-Q1-K1-C7

<400> 53335

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acaactacta ccattcagcc agctagctgg tgtgagccct gctaccttct tgatacaacc 120
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acaattgctg ccattcaacc aacttgcttt gacaaacca gcagcgttct accaacaacc 240
catcattggg ggtgccctct tttagatttc ttatgagtta tagttcaata ataaagtttt 300
ttgtctgatg tttgtggctt cccagaaata agaaagtaca tttctagatt cttaaaaaaa 360
aacnaaaatt caaaa 375

<210> 53336

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-C8

<400> 53336

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gatgtggtgc caaccacaag atgcagtcgg tggacgacc aaggaaggat ggacttaacc 240
agtggatgct cgccaagcga gtacctcccc agcaaact ctctaagtgt taaattaaag 300
gtactcctta ggatgattgg ttgatggtgc gacttggcct tcatccctgc caccgggata 360
gatggtcgag tgggttactg cttccgcagg agaggaccag gaggagtagt gtggccaggc 420
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<210> 53337

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-C9

<400> 53337

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aactgctcta ttcttcaaaa caaatggcga ccgttccagt taacccaaaa ctttttctga 180
acaacctgac aggaaagcct gttattgtca aactcaagtg gggatatggag tacaagggtt 240
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atggtcaatt ctctggaaac ctgggagaga ttctgatcat gtgcaacaac gtcattgta 358

<210> 53338

<211> 340

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-D1

<400> 53338

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gcggcgccgg tgggtacggt ggtggccgtg gaggcgccgg ctacggcggt ggctggcgcc 180

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<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-D10

<400> 53339

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ccccctccgg cgcagctagt gccgccgct caccgtcccc gctgatgcag ctgccgtcgc 180

cgttcgcgga gctcgtcaag ggccccctccg gcctcgagaa ggtcgtgctt cgcggcgctc 240

gcaactgctg tgccgagatt tatctttatg gaggtcaagt aacatcatgg aagaatgaca 300

atggggaaga cttgcttttc ctcagcagca aagctatttt caaacctcca aaagctattc 360

gtggtggtat accaatctgg tttccccaat ttggat 396

<210> 53340

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-D12

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atccagagtg aagccaatat tcatatgact ccgacgttca gcctttggag tgcttaactg 360
attatgacga gagg 374

<210> 53341

<211> 392

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-040-Q1-K1-B7

<400> 53341

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ctgtttggga tgctggtggc caagaaaagt tgaggccctt gtggaggcac tacttcaaca 360
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<210> 53342

<211> 364

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-A12

<400> 53342

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 agacttcgat gtcactctaa tttcaattga catgccccatg actatcaaag gccagactga 240
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<210> 53343

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-A2

<400> 53343

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 gcacgggacg accccaagtg cgaggagatg gtgccttgca ccttcaggcg ctgcatccag 240
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<210> 53344

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-A3

<400> 53344

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caggaggagg aggactggaa gcgcacgcag gaccgaatcg gatgccggca ggtcgaggag 360
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<210> 53345
 <211> 344
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-A4

<400> 53345

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<210> 53346
 <211> 351
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-A5

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 cccaggggcg gctgttcacg gtggagtacg ccatggaggc cgtcaagcag ggctccgcct 120
 gcgtcgggct ccggtcgagc acccagccg tcctagccgc cgtcaacaag cccgcctccg 180
 agctctcttc ctaccagcgg aagggtgttc gcgtcgctga ccacgccggg gtcgctctcg 240
 ccggcctcac cgtcgacggc cgcgttctct cgcgtttcct ccgcaacgag tgcatacaacc 300
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<210> 53347
 <211> 371

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-040-Q1-K1-A6

 <400> 53347

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 gtctccgccg ccggtgaagc tgatcggctt cttcggcagc ccgtacgctg tccgcgcgga 120
 ggcggcgctg tgcctgaaag gcgtgccgta cgagctgata ctggaggacc tgttcggcag 180
 caagagcgag ctctgtctcc accacaaccc cgtgcacaag aaggtgcccg tgcctcctcca 240
 cggcgacggc cgggccatct ccgagtcctt cgtcatcgcc gactacgtcg acgaggcctt 300
 cgacggggcg ncgtgtctcc ccgccgaccc ctacgcgcgc gccgcggccc gcttctgggc 360
 cgacttcata g 371

<210> 53348
 <211> 360
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-040-Q1-K1-A7

 <400> 53348

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 gtgctccgct catgttagag aacccccctgg gaaaacgcag cggagaaact ctggagatcg 120
 aaaccccggc acgcagctag gcgaactgca cgcaactgca ggtcgacgtc tgatccattt 180
 cttgacgctt cagcttctgg tgctggctct cttccagttg catgctgggt acctgtgtca 240
 aggggcgggt ggtgtctggt gtagttggag ggcagagctt cgcgggcggc gaagaagaag 300
 agcagcagag agactctgct gacactgacc gtaggagata tggcgaggaa gctgagagag 360

<210> 53349
 <211> 427
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-040-Q1-K1-A8

 <400> 53349

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gcagcactgg aggagattcg ttagcgcaga gactggtagg acctgtagga gatagggaga 120
aagggtaaac gattagatga cgagaggatg atgctatatt tatcaagtcc gcagcgctc 180
tcttgtggtg gcccgcgaca cacgtgggtt gattgacagt gacatcgctc gctctaagat 240
aggttttggt tcttccctgg cccccgaaa tcatcacctg gcgccgccac attcgaatgg 300
agatggatct gctgtcatca tcttgcttcc tattttgtaa agcttttgct gctgagtata 360
gtggtacctt agattgtcgt ccatttctgc cctgttttcc gggcagctat ttgtagtgta 420
aaatatg 427

<210> 53350

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-B1

<400> 53350

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gctgtggcgg gtcgaccatg tacagatcgg cgtgtgtcgt gatggcgtgg aacgtgttac 120
ggttctgcac tgctctagcg tgggctaggt tcaatcatga tcctgctcgt gctcgcgac 180
gtcggcggtta ctctactacg ctgtcgtgct atgcaactac agtgctgtcc tgatcacccg 240
tggcggcacc actctggtcg cgctcgcagt gatgctctgc ttgcacttcc tgcttgcctat 300
gcttctatgg agttattcat ctgtcgcgtt cactgacctt ggttctgttc caccagatcg 360
gaatcttgat tctgatgtgg ag 382

<210> 53351

<211> 300

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-B12

<400> 53351

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aggacctgga gagagaggtc ggcattggtc ccgcagtggc cgacgacgct ggtatggacg 120

ccgtccagaa gcgcctcatg ttcgaagacg aatgcatttt ggtggacgag caggacaatg 180
 ttgttggcca tgagtcaaag tacaactgcc atttgatgga aaagattgat tctgagaatc 240
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<210> 53352

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-B2

<400> 53352

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 ctccgccatt gagatcagaa acttcctcgg ggagaagaag gtcaggaagg ttgatatgct 120
 tgaagggtg accatcttgc gttcagagaa ggtcaaggat gagcttggtc ttgaaggcaa 180
 tgatgttgag cttgtctctc gtcgcgtgc tctcataaac cagaaatgcc atgtcaagaa 240
 gaaggatatc cggaagttct tggacggtat ctatgtgagt gacaagggcc ccatctttga 300
 tgagcaatga gctgcccttt gttcctggct agcacaagcc gtgttaggct gtggccagta 360
 gactgtttg 369

<210> 53353

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-B3

<400> 53353

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 acccccatcg ccgacaagat gcagatcttc gtgaagacct tgacggggaa aaccatcacg 120
 ttggagggtg agtcctcgga caccatcgac agcgtgaagg ccaagatata ggacaaggag 180
 ggcatcccg cggaccagca gctgctcatc ttcgacggca agcagctcga ggacggccgc 240
 accctcgccg actacaacat ccagaaggag tccacctgac acctggtgct ccgacttcga 300
 ggtggcgctc agaagcgcat gatgaagacg tacaccaagc ccaag 345

<210> 53354

<211> 345
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-040-Q1-K1-B4

 <400> 53354

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 ccaccactgc gtcgaaagag caatgcatca caactgcccc gtctgctttg agtatctgct 120
 cgactccacg aaggacatca gcgtgctgca atgtgggcat accatccatt tggagtgcac 180
 gaacgagatg agagcacacc atcacttata atgcccagtg tgctcgaggt ccgcctgcga 240
 catgtcggcc acatcgaga agctcgacga ggaggtcgcg gccacgccga tgctgacat 300
 ctaccagaag cacatggtgt ggatcctgtg caacgactgc atcgc 345

<210> 53355
 <211> 295
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-040-Q1-K1-B5

 <400> 53355

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 atgacaatta gactggagg atgccaagta ttcaaagggt gcattattat aatgccaaca 120
 gagcaattac tgtcttcatt atgccaatag tctgaagtcc gatgaatcga gtgccaaaat 180
 tgcaaaaatc tctccatcat gcgggagtta gtttcatttc gcaacagcag tgattcttag 240
 gttcttattt ctggtggcta tggtagcact tatccattaa cgatgtcatt atcac 295

<210> 53356
 <211> 432
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-040-Q1-K1-A11

 <400> 53356

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 tcgccgagta tctcgcgttc gccgtcaagc gggcgggctt cctatacggc cgcacgcgac 120

cagagaccaa ggaggtcttg gtcgacttca tctatgagcc gccccagcag ggcttcgagg 180
acgtgggtcca tctcatgagg gatccccgacg aggaggccccg cgtcgatacc attgccgagg 240
ggcttgggat gcgccgggtc ggctctgtgt tcacgcaggc cgtcgggagg agggccagca 300
agactgggtga gtacactatg tccaaccggg aggttgtgca tgcggcccag ctgcaggctg 360
agggcgggac cccggagtgg gttactgcc a tagtcaaatt ggaggtgggg gatgacggca 420
ctggggatgt gc 432

<210> 53357

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-G11

<400> 53357

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tcagcatctc actcaggaga ttaatggagg acgagtctgt gaaggagcgc ctctgccagt 120
cgatccttgt cactggcggg agctccctgt tccctggcat gatccctcgg ctggagtctg 180
ggatacggca atatcgcccc taccttgctc ccctgaagct tgtcggagca gctgacccca 240
ttttagacgc gtggaggggt gctgccgtct ttgcggcatc aagcaagttc ggcaaacaaa 300
cgttcagcct agctgattac ggacagcatg gagagaacct gtttcatcgg tacaacattg 360
tttactcact ataaccggaa aatgacatag tgatcgaacc atctcagtca ggctatttat 420
ttaa 424

<210> 53358

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-G12

<400> 53358

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gggtccgcgg ccgacgcgga gcaggagcaa aagcgggcag cggcggcggc gtacgactac 120
gagggcgacg cgcgctgggc cgagtactgg tccaacgtac tcgtcccggc gaacctcgcc 180

tcccgacccg acgtcgtcga ccacttgaag cgcaagttct accagcgcta catcgaccat 240
gatctgggtcg ttgagccaag gtcattcacc agttccactc aggccagcat gccagatgta 300
aagtcttcgt cttegtcatc caccgaaaac gtcagggagc gtaattcatg atctact 357

<210> 53359
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-G2

<400> 53359

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gtcgacaaga ggaaagtgtc caccgacgaa ggagaagcca aagcacagga gcatgggtgct 120
atgttcatgg agaccagtgc aaaagctggg ttcaacgtca agcccctgtt ccgcaagatc 180
gctggatccc ttccaggact ggacgcactt tcgtcaggaa agcatgaaga catggtcgac 240
ataaacctca gacctgccag cggttcgtcg gcttcaggtg cagccgcgca gctggagcag 300
aaatcaagcg gttgctcctg ttgagacttc gacagttttg tggtcagaga agctacagca 360
gtactgcaac atcgagttaa gtactttcag agagattatt accaagagtg tggtttttgt 419

<210> 53360
<211> 215
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-G3

<400> 53360

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gctgccaggt gtcaagatat cggaacctca tggagccttc tatttattca tcgacttcag 120
ctcgtactat gggctctgagg tggaagggtt tggtaccatc aatgactctg agtccctctg 180
tctgttcctg ctggagaagg cacaagttgc gcttg 215

<210> 53361
<211> 91
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-G4

<400> 53361

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ggggttcccg attggctggg ttctaggctg a 91

<210> 53362

<211> 325

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-G5

<400> 53362

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cggccgcgac gaggtgcggc gcgccatcct cgaggccggc aaggagatcg gcttcttcca 120

ggtggtgaac cacggcgtct ccctggaggc gatgcaggac atggagacgg tgtgccagga 180

gttcttccgg ctgtcggcgg aggacatggc cgggctgtac tcggaggaca cggtgagggc 240

gacccgatc tactccagca ccatgttcga cacgggcgcc tagaagtact ggcgcgactg 300

ccttcgtctg gcttcttct tcccc 325

<210> 53363

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-G6

<400> 53363

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agggcgggaa gggcctgggc aaggcgagg cgaagcgcca ccggaagggtg ctccgcgaca 120

acatccaggg gatcacgaag ccggcgatcc ggcggctggc gcgcaggggc ggcgtgaagc 180

gcatctccgg gctcatctac gaggagaccc ggcggctcct caagatcttc ctggagaacg 240

tgatccgcga cgccgtcacc tacaccgagc acgcgcgcc caagaccgtt acaggcatgg 300

acgtcgtcta cgcgtcaag cgccagggcc gcaccctcta cggcttctgc ggctaagcta 360

tgctgtcgc gct 373

<210> 53364
<211> 240
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-G8

<400> 53364

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caaagacata aacttattga aggttgatcc ctataaagga agctgggggc tccgccttct 120
ggaacttgag cttttcaatc ctactgatgt cgatttttat gttgatgttg ctgtgcattt 180
ggatgacacg gatgtggacc aagatgtaat ttcagactga gatgctgctt gtcacaaaac 240

<210> 53365
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-G9

<400> 53365

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ttgggacctc gagcacggat aagaatgtac ttccctactg aagggtcaca gtataccctt 120
ccacactgct ctgtcaattt cttttggaag gattattgtc ctatggtttt ccggaacctt 180
cgagaaatgt tccacattga tgctgcagat tacatgatgt ccatatgtgg tgatgacagt 240
ctgaaagagc tttcttcacc tgggaaaagt ggcagtatgt tctatctttc acaggatgaa 300
cgttttgtca taaaaacctt gagaaaaact gagttgaaga tactgttgaa gatgctacca 360
aaatattaca atcatgtcag agcttatgat aatacgct 398

<210> 53366
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-H10

<400> 53366

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tgctcgcca aggcgtttgt tgctggcttc gtggcatatt tgctggacaa cactattgac 120
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 tacaggaccg atacaagaag cgaggagttc tattccctgc cattcaatct gaataagttc 240
 ttcccatcgg tctgagcttt tgctgtggtt aatgtgagat gctcttgta ctctggaact 300
 gccaccccc tggtctccgg cggcggcacc gtgatctgga ttttctcggg acatgaaaaa 360
 attactgtat attaaaaccc gctcagctcg ggtttcaccc 400

<210> 53367
 <211> 459
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-H11

<400> 53367

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 gcgaatgagg tggtctgtcg catagagagg tccaccacgc tgaagaagct gatgaacgct 120
 tattgtgacc gccagtctga ggacatgaat gccattgcgt tctgtttga tggccgcagg 180
 cttcgcggcg agcagacccc tgatgagctg gagatggatg actgcgacta gatcgacgcc 240
 atgcttcacc agaccggagg cagcgttcct agcaccacct aaaagcctcg ttttgccttc 300
 cgtcctgcgt agtactaaac aaaagggaaa aagtcttttt aaggaacttg tgatgctctg 360
 gtccttctg ccattgctga gggacatcct tagcctttgt ttagtagtat ggtttggtac 420
 tatgttctgt catcactcgt ttatctatcc ctaatacat 459

<210> 53368
 <211> 324
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-H12

<400> 53368

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 gagataaaaa cagcacctgc tgacttccgc ttccctacaa caaaccaaac aaggcattgt 180

tttactcgct atgtcgagta ccacaggtgt ttgaatgcc aaggggatga tgctggtgtt 240
 tgcgaaaaat ttgccaaagta ctacaggtcc ctttgccctg gagaatgggt tgagaaatgg 300
 aacgagcaga gggagcatgg gacg 324

<210> 53369
 <211> 336
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-H2

<400> 53369

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 aagcctttct tgcttgaaga tgggcgccta ctgtgttgat catcagttga aagttggaat 120
 tcttggggtg catggcttga ggtattcaga ttgttgttg attctatttt tgcattctctt 180
 tgtaccctct ctgttagaat ggacagtcct tgtgtagtgt attgagctgt ctactgatt 240
 cattaattg caggttcgac tgctcttggt gtgccctttt ttgagtacct gttccatgat 300
 gatgtaaata ttccttttga ttctatttag cacttg 336

<210> 53370
 <211> 122
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-H4

<400> 53370

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 gagaaaaaaa aagaaaaaag aaagaaaaaa aaaaagaaaa aaaaaaaaga gggagaaaaa 120
 aa 122

<210> 53371
 <211> 173
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-H5

<400> 53371

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cctattgagg ctatgtgcac atttacaccg aggtcgggtgg ttgatcatca gttaattatt 120
acatgttaca gtagatatga acagattgtg atgaggttga atcgatgact aaa 173

<210> 53372
<211> 454
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-039-Q1-K1-H6
<400> 53372

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aaaaaaaaata aaaacagata aaaatgttaa ataataaat ggaattatTT ttgattttat 120
tttttttaat ctatatctat attatacttc ttattgtttt atattatgtc aattaatttt 180
ttatttttta tattatctga ttttttatac tttatgattt tttttatata tgaatttttc 240
tttttactaa attttttatt tatttgttat tctatttttt atattttata ctttattttt 300
attttttaat tttatctttc ttttattttg tttttttttt ttattctatt ttattatctt 360
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attgtctttt cgttataatt tttatatatt tttt 454

<210> 53373
<211> 298
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-039-Q1-K1-H7
<400> 53373

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gcggtatgtc tggctgcctc tgacgatagg gggagtccct gatgaagccg tagactatag 180
cttcattgtc cctctctggt ccccggtgt ccactactg gcacaaacgg aggcgtctcc 240
ctgatgagtg gaaggattct tggaaatata tgatgtcttt tagaataatt caagatgt 298

<210> 53374

<211> 202
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-039-Q1-K1-G10

 <400> 53374

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 ggccgcactc tcgoggacta caacatccat aacgagacca cccttcacct cgatctccgc 120
 ctcaaaggct ctatcccaat ctctgaaag accttgtctc taaaaacctt aacctatcat 180
 gacatacagc tactacactc aa 202

<210> 53375
 <211> 93
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-040-Q1-K1-A1

 <400> 53375

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 tggtagtaca actatgaagc ctgaagatgc aga 93

<210> 53376
 <211> 244
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-039-Q1-K1-E11

 <400> 53376

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 agccccttcg ggcagcactg ccagatcgcg ctggcagata agggcttggc ctacgagtac 180
 cgagagcagg accttctgga caagggcgag ctgctactac gatccaacct catccacaag 240
 aaga 244

<210> 53377
 <211> 335
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-E12

<400> 53377

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cagactgaaa tcattgatac actacaccaa gcttggtcaa agtttggctc ttttaagctg 180
gagtgcacga ggttgggtga ttattatgtc cctcttttct tcacaaaaat tgcttcatta 240
agccctgaag aattctgtgc atcagcaagt ttttgtgggg gggtaacatt cattcgtcta 300
ccaagacatg aagatacttg cacactttgc catga 335

<210> 53378

<211> 306

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-E2

<400> 53378

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agagcgacaa cacacggtgc tacgagatcc tcgggggtctc caaggacgcg tcccaggatg 120
acctcaagaa agcctaccgc aaggccgcca tcaagaacca ccccgacaag ggcggcgatc 180
ccgagaagtt caaggagcta gctcaggctt atgaggctct cagtgatcct gaaaagcggg 240
agatttatga tcaatatggt gaggatgcc tcaaggaggg aatgggaggt ggtggaggga 300
tgcacg 306

<210> 53379

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-E3

<400> 53379

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tcccttctca gaatagtggc agcttgggtcc atacttgtctg cctacaccat acccttcttc 180
atcatcccaa ggaccgtgca tccgctgctt ggctggcccc tctacttgct cggatctttc 240
tcactttcct ccatttgtga tcaacattgt cttcctccac cctatcacgc tcctcacaac 300
atggtatgga ttcatcggct cactcctggg gatggccttt ccttgggtatc taaaatggcg 360
ttgtcagggc tctggcagtg tttgcggatg cgttctgtctg cgcgcctttt gatctgggct 420

<210> 53380
<211> 330
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-E4

<400> 53380

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tcttgtttga ggaaagcgag ttcccacagg cgtcgcagggt ggatgaggtg tacctcgagt 120
ccgtggagag ctgtgtccgc agagccttcc tgcaggcgga ccttgccctg gctgatgatc 180
tggacatcag ccggtcctct ggaaccacgg cgctcactgc attagtgttt ggaaggcaac 240
tgggtggtcgc gaacacgggg gactgccgcg cggtgttgtg ccggaaagga gtggcgatgg 300
agatgtcccg cgaccaccgt gcgaaccacg 330

<210> 53381
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-E6

<400> 53381

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aagaaggacg agaatggtaa ggcaatcatt tctgaaaggg tagccccctt tatcaggcct 180
tcggacaagc ctgaagaaga taacgtatga tctagctgta gttatattgc gcgcattgca 240
ttcacgcgct gtttgcacac aggccacaca cgcattgcga ttatttggtc aaaaggaatt 300
gcttgccgct cttgattata ttactgctta taacttttaa aaaaatattt ttatttattt 360

tttattttta tgattttttt ttattgtttt tagttttttc atttttttat ttttttttc 419

<210> 53382
<211> 311
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-E8

<400> 53382

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caacaatcgc atgacttctt cgagcatgct agagccgtat cgagtgatat ggaatcaacc 180
agtgcattgt gaaaagtctt acgtattctt agcaatttct gtgaaatgga acattaccat 240
cattaccaat caagcaatct taagacttct ttgagccatt tgcataattg tgtgaaatgg 300
ttcaatatta c 311

<210> 53383
<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-E9

<400> 53383

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tgctgtcac aactgatggt gttcttgtgg gtgctgtatt accttattac tgtggaggga 120
ggtggagcta cagagcaaat cattgatctt ttgccagtgt caaaacaagt aaaggaccgc 180
tgtgttgagg tcatggatca tgccatcagt agtgtattgt tggccactgc caagattgcc 240
atattccagg gggggctgac atggctattg ttcaagttct tcaaagtgca ttttgtgtac 300
acatcaactg tgcttgatt cataagtgc cttgtgcaa tacttccatt ttggctgtcc 360
tcgatatttg ccacaaggca gcttc 385

<210> 53384
<211> 191
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-F1

<400> 53384

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tggatgatga tggatgatgg gagactatcg gatatcatgt ctagcacaac ggcttgtcaa 120
aaaaaacaac gacgatgaag attttgtgga aggccatggg cgaatgtcat gtcttgctgt 180
tacactctat a 191

<210> 53385

<211> 310

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-039-Q1-K1-F10

<400> 53385

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gtgcacagat actgagcgaa gtgtgagtgc cctctgggga aagctagcag cagaaatcct 180
aatgcagaac tgggatgtgg ctttggagga attcaaccgc ttgaaggaaa taattgattc 240
aaagaacttc tcatcacctc tgaatcagct ccagaacagg atatggctga tgcattgggc 300
tctgntcatc 310

<210> 53386

<211> 307

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-F12

<400> 53386

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agccaagaca aggtggtaat ggagagctgt tactatctca aggacgcagt gctgtactgc 120
ggcatcccat acaacaaggc gtaccggatg actgcgttcg agtaccactg cacggactcg 180
cgcttcaacc gcgtattcaa cgaacgcattg aagaaccact cattgatcat caccaagaag 240
atgctggact tctacacagg cttacaaggc gtgtcaacgc tagtagacat aggctgtggc 300

ttggggca

307

<210> 53387
<211> 389
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-F3

<400> 53387

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aagtagtaat ggcctccgcc aacagctgga ccctcgagat cgcgtccgcc gtggccccgc 120
agcgctgtt ccgcgccgcc gtgatggact ggcacaccct ggcgcccagg gtcgcctccc 180
acgtcgtcgc cagcgcgag cccgtggagg ggcacggctg cgttggcagc gtcaggcagt 240
tcaacttcac ctcagtcatg ccgttcagct tcatgaagga gcgtctcgag ttcctcgacg 300
cggacaagtg cgagtgcag aacacgctca tcgagggcgg ctggatcggc gtcgccatcg 360
aaacggcgac gtcgcacatc aaggtggag 389

<210> 53388
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-F5

<400> 53388

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ccaaatggta gcggaaagag ttccatcttt aggggtgctt gaggttctgt gccattgct 180
tctggtagtc ttagcaagcc atctgaagga atttttaatg ttcctcaacg tccatatact 240
tgtcttggaa ccttgaggga tcagatcata taccctctct ctcacgagga ggcaaagttg 300
aagattctct catgcgaaac aagtgcag tctacagctt ccgagcttgt ggatgatcac 360
ctgaagacga ttcta 375

<210> 53389
<211> 359

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-039-Q1-K1-F6

 <400> 53389

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 acatgatgac tatagaaatg tcatttattg gaagtgcgtg cttgtttagca agtacctatc 180
 ggtcaccaga tggagaagcc ataaggaaat atgggggtttt ccatgaatgg actttctgga 240
 ccatgggtacc ggtattaatg aatgccgtgg gtggaattct tgatgggtctt gtcacaactt 300
 acgcaggtgg tattagaaag ggttttgta tatcatcagc tcttcttggt acttcactg 359

<210> 53390
 <211> 425
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-039-Q1-K1-E10

 <400> 53390

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 tcaaggaag gtccaacagt attagttttg tccccaacca gggaattggc aacacaaatt 180
 caagatgaag caatcaagtt tggcagatct tcaagaatat cttctacttg cttatatgga 240
 agtgctcaa aaagtcctta acttaaggaa tttgaacctt gttcccaatg ttgtggtgca 300
 acttctggga gattgaacga cattttggaa attaattaaa tgaaccttgg ccaagtatta 360
 tatcttggcc ttgattaaac ttaccctatt cttgatattg gaattgagcc accaattaga 420
 aaaat 425

<210> 53391
 <211> 332
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-039-Q1-K1-F8

 <400> 53391

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 tctcagagac gagcggattg gctcatcagg acgaccatga cagtgaccag gctaacgaga 180
 ggcctttggt tctctgcaac aaggagccaa tgtggcacga gcagctgcag tgttggtgcc 240
 tcaacttcca tggtcgggtg acctgggctt tctgggataa actgtcagtc gattgctgca 300
 ccactactag attcttgacc gttacagcaa gc 332

<210> 53392
 <211> 242
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-G1

<400> 53392
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 ttcccggggg tcgaggctgt cagcagcttc gaccagatgg gcattaagga cgacctctc 180
 cgcggcattc acggctacgg attcgagaag ccctccgtca tccagcagcg cgctctgctc 240
 cc 242

<210> 53393
 <211> 420
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-B7

<400> 53393
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 gcgatacaga gaaagttcta aaagcactgc aagcagtttc aaatcatctt cggaagtgtt 120
 tggttgatca tagtgtactt ccattatttg aaaagactaa tactacagtg agccaagatc 180
 gcaatggtga tggttggagc gatatgtcac gtccttcaat tggttctgca caagtgaatc 240
 aactaccttc agtggttagat gactatattc ttcaagtga gagggatcct ctgtaccttg 300
 aacgagaatc tttggtagat cataacattc atcgctcagg cgtatcactt tatgggcgtg 360

atccagcctt gtcaacacta cgaccctctg cagtacatgg tgctgggtca ctacttacac 420

<210> 53394
<211> 185
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-B8

<400> 53394

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gcactgcttg tttgttggcc cttctctccc agttttacag acctgggtta gtcttcttga 120
tattgcttgg attggatatt acgagccact ggtttcaaat gtacagttct ttcttgtcag 180
gtaag 185

<210> 53395
<211> 367
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-C10

<400> 53395

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gggccgcatc accagggctg cgccatgaca cctgcctcct tcgtctccga ccccgcgccc 120
gttccctagc cccctaagcc tctctacctc cggggccctg tcatcgcatg cgccgtcacg 180
ctggcctcgt ttcttctcct cgccgccgac tacgccacca ggcgagcacg gtcctctccg 240
gccgctctac tctcccaccc agctgtttcc accaagttct tctccttcga cctgatgcgc 300
tagtaccctc actaccctgc cggcttcacc caaggatatct tgtacgcggg aaatgacacc 360
cttttcg 367

<210> 53396
<211> 450
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-C11

<400> 53396

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tgctgatcga ctgacgcacc ctccacagcc atctcgccaa gtcatacttc cagctgctga 180
tcctgatgct ggcggtccca tgtttggagg cattcgcccc accattgata accgtctggc 240
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cattcagcat gatactgtag cctaacaagc tgctgctgct gacctgtct taccactgat 360
gaatgctgat gcttgacgca ttcatacctaa gggttaccaa gattgcctca acaactatgg 420
cagcgagatc agcagggcag agttatacct 450

<210> 53397
<211> 409
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-039-Q1-K1-C3
<400> 53397

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gaccaagacg agggcatcgg gcaacatact tgtagccgt aatgacgacg ggccatgcta 180
tctagattcc ggtcttaatg agtacgtctg cagaaagact aataagtgtc ataagagctt 240
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atgatactgc ggagacagac ggcgagagat gaagctagct agatgctgtt tcaccaaatt 360
attatgtaac acccaaattc cccattttta gaaataaata agatttttcg 409

<210> 53398
<211> 198
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-039-Q1-K1-C4
<400> 53398

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ggggcatcat tccgaagggt gatgggtgga acagggtggat tcttggttgc catactctgc 120

aaggctgcgt ttgcagcctt aaagcaaagt tcaacttgtca ttgcaattaa atgggctggt 180
ccttaaaagg cctccatt 198

<210> 53399
<211> 116
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-C5

<400> 53399

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aattaaaaat tagatatggg gggtcacttt gtcggttcca tctattcctt tcccat 116

<210> 53400
<211> 173
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-C6

<400> 53400

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gtgttctct tccactctct cagaggagca aaggcatctt cagcatgggc ttctcgggga 120
gaaaggggca taatttctga catacgtctt cagggcgcaa tcaactggaag gtc 173

<210> 53401
<211> 451
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-C9

<400> 53401

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ggcaggtacg acctcagctc gctcagatgc atcggctctg gcgccgcgcc gctcggcaag 180
gacgtcatgg tggctatggc tgacaggttc cccggtgtcg acattatcca gggttatggt 240
atgactgaaa cctgcgggat aatatccctg gactacgtac agaaggggtg tgcccgtcag 300

tttgggttcga ctggagcact tgtcacagga gttgaagcaa agatcggttaa tgcaaagaca 360
atgaagcatc ttccctccgag ccaactagga gaaatctgtg ttcgaggacc gaacataatg 420
gaaggctatt tcaacaatgt gcaagcgact g 451

<210> 53402
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-D1

<400> 53402

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caggctgtgg cagggcgaggca gctgcgtgcg atcccaagcc gctgggtggtg tgcgatccgg 180
cgttcatgga ctgagcgata ccctctgcag catgctgttc caccctgcgt gcgcatgagg 240
catgcttgtg cgtgtaagcc aaagacccca agtttgcaaa atacatcadc aacttcaaca 300
ccgtctaaac ctttaccttt tgcggcattg tcattctcaa atgctaattc agcgctctgc 360
gtcgtcgctt tgctagctct tgctcttgtg tgtaacatat tcagcttatg aataaattat 420
gtgga 425

<210> 53403
<211> 454
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-D11

<400> 53403

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acctttatca cccttggtgt ttcaacaatc gccagtccta tcttcgggtgc agtcattggt 180
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tctggcaaac ctttctccct actctcagca acaacaattt cttacattca accaactgtc 300
tacactgaac cctgctgatt atttgcacat acaactatta ccatttaacc agctagctac 360

tgctactct cagcaacaac aacttcttcc atttaaccaa ttggccatac tgaaccccga 420
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<210> 53404
 <211> 310
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-D12

<400> 53404

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 acatacctta atcacccttg ccatctcaac aatcgctatc cctatctttc ccgcacccat 180
 tcttacatac catcacgtca caacaactgc aacatctcga gctacctgcy atctaccaag 240
 tctctctggc aaatctctct acatactctg agcaacaaca aatttctaac attcacccaa 300
 cttgctacac 310

<210> 53405
 <211> 406
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-D3

<400> 53405

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 gcgtgccgaa gggcgaggat gcgctcgtga aggtggcgct gctcggcggc gcggggctct 180
 acgccgtcct caacagcttc tacaacgtct agggcgga ca ccgcgccatc gtcttcaacc 240
 gcctcgaggg gatcaaggac aaggtgtacc ccgaaggaac tcacctgatg atccccgtga 300
 tcgaaaggcc gatcatttac gacgtccgtg cccgacccaa cctcgtctag agcactttcg 360
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<210> 53406
 <211> 263

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-039-Q1-K1-D4
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 tattgggtgg gatggaagaa acatgcgcaa ggagcaacgg acgttgctga tgagacaacg 120
 ccagcacgtg gtcatggtct gcatgtcgcg accgggatgc tcttcacgag gaagagcttg 180
 cttccagggg cagccctacc ggaaggtacc aagttctgcg gccacggctt cctcgatccc 240
 gaaaggtttg aactacgagc gga 263

<210> 53407
 <211> 404
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-039-Q1-K1-B6
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 tgccagatta ctttgctaag gttgaggaaa gtatggaaat ggaaaccaag aggctggctt 180
 actatctgga aatttcaagt ggggatagct acccgctctg tttgcaggct gttaatgctc 240
 ctttgatgga aacatatgtc agctatgtga cagagaaaca aatcgggtggc cagctgatgc 300
 ttgaaactta caagattggt gaagaggaac tgctctgcag atgcagtaac ttgacaactg 360
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<210> 53408
 <211> 259
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-039-Q1-K1-D6
 <400> 53408
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gcgcaagcgg taggagcaat gggcagcggg caagaatgag aaggcgctcg cggacaggaa 180
 gaatgcgctc gagagccgca tgatcatctt cgcccggtgcc aagcagtacg ccgaggggta 240
 ccacgcccga gagaaggag 259

<210> 53409
 <211> 386
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-D8

<400> 53409

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 ctcttggggc tgggcaccca gatgtactca aacgctcttc gcaagcttcc ctacatgcgc 180
 catccatggg agcatttggt ggggatgggt ctcggtgcag tgttcgtgaa ccagctggta 240
 aagtttgatg agaagctcaa ggaggacctt atcaggatac ttgagctcgc caggctagcc 300
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<210> 53410
 <211> 112
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-D9

<400> 53410

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<210> 53411
 <211> 358
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-H7

<400> 53411

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gaacaagagg atctccaagg gaaagaaggg tggtaagaaa aagaccgtcg atcccttctc 120
taagaaggac tggatgaca tcaaggcccc atcgggtcttc agtgtgcgca acattgggaa 180
gactctcgtg tccaggacac agggtaggac gattgacctc gatgggtctga agcacagagt 240
ctttgaggtt tgtctagctg atcttcaggg tgacgaggat caggcttaca ggaaaatcag 300
gctccgtgct gaagatgtgc aaggcaggaa tgtgctcaca aacttctggg gcatgaat 358

<210> 53412
<211> 290
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-H8

<400> 53412

tgtgctccta ccggtagagt gaagacttta atgacaagct accgctggat agcagagaag 60
tcaatccgat ttttgaagaa ggatccaaat atgggcgcaa aaaacttaca agaggagcta 120
gaggataaat ataatgtgaa gctaggatac tcaacagtgt gggctggtag acagatggcg 180
gtggaacaaa tattgggaac atgggaagaa agttttgcag atttgtatag ggtcaaggct 240
gagattgacg gcaaaaatgc ctggaagggt tatcgattta gaggtgcagg 290

<210> 53413
<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-A1

<400> 53413

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agaaaaatat agagttgcag tcatgttctg agaatgcaca tgcagtgttg acagccgaga 120
aactagagtg gggaaactca gatcatttaa gcggtattat tgaaaaacat cctggtggat 180
ttgatcttgt tcttgagagt gatatttgct ttcagcaatc tagcatttcc tgaccttttg 240
atactgtaga gaggattgtt cgtattcaag ctggtaaagt cagattcata ttggcttatg 300
tatcccgaaac taaagtcagt gatgcactaa tactcaagga agctgaaaag catggaatgc 360

gtgttgaaaa aatgaaccgg aacaagaaca acca 394

<210> 53414
<211> 321
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-A10

<400> 53414

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gcccttgctg ctgccgact actccaccgc cgactgccag atcgacgggt accacatccc 120
cgccaacacg cgcgtcctcg tgaacggctg ggccatcggc agagaccggg cgggtctggga 180
gaagcccag gagttcatgc ccgaaaaggt catgcgggac ggcttggaca aggtccacca 240
cttccagcgg caagaattca aggaccttgc cgtccgggtct tggccccga tcttgcccgg 300
ggccaaattt gcgcttggga c 321

<210> 53415
<211> 254
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-A12

<400> 53415

tgtgcagcct tgactaccat atcgattca tctttaatcc gctgatgcat taacctggga 60
tgggcttgat tatctagctc ttctgcaata tccacagcat tatctatgtt tatccaatcc 120
gctgctacat actcaciaac atgtacttct taaacctacc cagataaac actacctgga 180
aaaactccta tcaaattata catgtactga tgattctgta ccgattacac aatatactca 240
cactcactat tcta 254

<210> 53416
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-A3

<400> 53416

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 gcactacaaa atgggtcactg ggaaagtagc agtcgtcctc ctagcctgct ggacgctagt 120
 tctctaccaa ccagtgttg gccgtttacc gtgtaacaat gatcagaaga gagagatcct 180
 gcgcgagtgt gatccactga actcaacacc tgactatact ccatcccggc acggtgcgtg 240
 ctgctggcg gtgagaaagg tgccaggaac caacatgctt tgcattgcct ccatactctc 300
 acttgctgac aaggccaaat acagtgtgag gaagattcta ggatttagag atgcatgcgc 360
 cccttcacat ccacaccatc aggtagttaa tacttctgtc atcacttgac agtccttaga 420
 ctacagt 427

<210> 53417
 <211> 368
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-A4

<400> 53417

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 agtgcttcta agtttttttg ggaaattttt ccaaaaaaaaa aaagaagttt ctggggaagt 120
 tcgacatggt acgtcaggcg ttaccggctc attgtgaacc aatacatgaa ctgccatgat 180
 aaggttataa gcagaaataa cagtagcact ggctccaatt cctgaagatg agtctggtgc 240
 gccctgctgt atgaaatgga tccactcgt ttattcgtca ccgcgccgca ctggtgtaac 300
 gtgttgctc aaagtttgct ttttacctgg tcctttttta aaaataagtc tggttttggt 360
 tggctacc 368

<210> 53418
 <211> 297
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-A7

<400> 53418

cccacgcgtc cgctccgcc cgctccactc tctctctct cccgggccgg ccgactccga 60
 tggccgtcgt cgaggccgcc gccgccgacc acgcgcgcc gccgtccag gaggaggcac 120

cgggcgcggg cgcgggcgct ggcgccgacg ccgggggagcg cgagatgcgg gatctggagg 180
acctgctctc caagctcaac cccatggccg aggaagtcgt ccctccgtcc ctgccttcc 240
ttgccgcct cagccccgtg ctgctcttcc tcgttgcta cggtgctac ccggtcg 297

<210> 53419
<211> 250
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-A8

<400> 53419

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tccgtgcctc ttggaaaaag aggaaccaa atcattgttc agtgcgatg caatttctcg 120
agcaaagcaa attcttgcaa ctattcctgg aagggcaaca ggtgcatata gtcacagtta 180
gggtatcaaa ggactgctg atgcaatttg ctgctggaat tcatgtcatg tgattggatt 240
ccctgcaaat 250

<210> 53420
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-B1

<400> 53420

cccacgcgtc cggagctttc ccgtgaggaa aatgtgtaca tggcgaagct cgctgaggag 60
gctgagaggt acgaggagat ggttgagttc atggagaagg tagccaagac tgttgactcg 120
gaggagctca ctgtggagga gcgaaacctc ttgtctgttg catacaagaa cgtcattgga 180
gcccgcgcg cctcatggcg catcatctcc tccatcgagc agaatgagga gggccgaggc 240
aatgaggacc gagtaacact catcaaggat tatcgtggca agattgaaac tgagcttacc 300
aagatctgtg atggcatcct taagctgctt gagacccatc ttgtgccgtc tttcacttgt 360
ctctgagtcc aaagtcttct atctcaagat gaagggtgat tactaca 407

<210> 53421
<211> 385

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-039-Q1-K1-B10

 <400> 53421

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 gggatcatca ctagagttgt ggacagcatg attgacaatc tacgccctac ccgtgcagag 120
 gcaactgatg ttgcaaatgc tgtcctagat ggcaactgatg gcatttttgc tgggtgcggag 180
 acacttcgag ggcttttatcc ttgtgatgca agtagtactg cgggggagaat atgtgcagaa 240
 gcttagactg tgtataatca agcgcttcaa ttgaagaaag ttatgtggca tgtaaggtag 300
 ccaatgcccc accaggaatc tggggcatca acaacggttg gttctgtaat caaagtgaag 360
 actgctgcca ttggtggggt cacat 385

<210> 53422
 <211> 330
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-039-Q1-K1-B11

 <400> 53422

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 tgttcataag taactgcgca ttgccttgcc cccttgctct gctccctact cccctccgga 120
 tctaccgggc tgctccattt aattactgac tctgaccctt ccccgcatc gccttcttgc 180
 ctcttccatc ccaccgcat cagccaccgg ttcccaatgc ccaggtaggc agcccagcac 240
 tgtgtgggtc tctgatccgc ggcggcgcgc ccgtcggtac ctacgcgaat ggctcctcca 300
 gcaggggagc ggaacgcgag gaggccattg 330

<210> 53423
 <211> 415
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-039-Q1-K1-B12

 <400> 53423

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 ttctactgtt tcatctgttg attacgagaa cccgatcaatt ccgtgctttt cgtaggctt 180
 tctaccgata gaaccttcca aatgtgacca atttgcttgc cactgtcttg gtattactaa 240
 taggtatcta ttgcaaggc ttccgtgctg agcttccagc gtgatcaaat aatgctcgta 300
 gccagcaagg ctcatctcca attaagctgt tctacacttc aaacatgccc atcatccttc 360
 actctgcgct gattaccaac ctctatttta tatcccagct tctctacagg aagta 415

<210> 53424

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-B2

<400> 53424

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 agtgggcact ggaaccaagc tgtgcaaagc ctactctaa acgtccgaaa actgttctct 120
 gacaatgacc ctggactatt cacggagagt ctgcggaaat acgaggaaga gaaagcgaga 180
 gagaaggagg ttaagtcgaa gcaagaggcc acatggagac gccttgaaga gatggcatca 240
 gcgaaagcga caagcggcgc ggcagttctc gtctctcgac ccttatcccg gcagtcttcg 300
 gctgtgtagc gaattttcat gtgggggtcg tgagaacatt gtacaggatt gagttgtata 360
 tacgaggtat attaaggtgg gcaaatttga caaatgatat cgtctgaaaa accagtcaga 420
 tgggttacag ggc 433

<210> 53425

<211> 193

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-H6

<400> 53425

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 atagactgaa gtatggctgg agatcttcca agatctgtcc agtacaaagg aagcgattac 120
 cggagcttac accacagctg cctaagccat tccagagtac agatggtttt actatgatcc 180

tatataagat ggc

193

<210> 53426

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-B3

<400> 53426

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aaagatgata acggcggggg gcctcgccgg cgtcagtgac tccgtggcgc agaagctctc 120

tgggttccag aagattgaga aacgcagact cctgctcaag atgctctttg gttttgcgta 180

tgggtggccca tttggacatt tcttgacaaa aattttggat tacatcttcc aagggaagaa 240

ggataccaaa accatagcaa agaaggtgtt gctggagcaa gtgacatctt ctccctggaa 300

taacatattg ttcttgttct attatggata tgttgttgag aggaggcctt tgaaagaggt 360

gacgaccagg gtgaagaaac aatacccttc tgggcaactt agcgcttgg 409

<210> 53427

<211> 167

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-B4

<400> 53427

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atgcagatcg ttgtgaaaac cttgacgggc aagacttatt cacctctcga ggtgggagtc 120

gttttgacac cattgacaac gttaaggcca agatccaggc caaggag 167

<210> 53428

<211> 206

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-G1

<400> 53428

cccacgcgta caaagtccac ctccaagttc gccaccgtcc gcatacatgg catcgcttgg 60

tccttcttgg gcatgatctg cgcgctcgtc tactgcaccg tcggcatcta cggcggggcac 120
atcaaccgg cagtgcactt caggctgttc ctggcgagga agttgtgcct caccaacgcg 180
gtgctgtaca tgatcatgca gtgcct 206

<210> 53429
<211> 275
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-G11

<400> 53429

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ttgtgcagac cgcgaaaact atgtcagctg ggacgggata catgccactg aagctgcaaa 120
tagtaggata gcgtatgctg tgatcagcgg ctctatttcg taccacactt tcgatctttc 180
aaagctatgt agcccttagg catcatcagt cgtgaaaggg agtacagcat caccatacac 240
cgcatttctc tgaacaagc agccacattt ctttc 275

<210> 53430
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-G12

<400> 53430

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gaatgttaga ttcctctgca actttcttac ggaagctgga attatcatca agagaagcca 120
gacccgtata agtgcaaaag ctcagcgtaa gattgcaaga gagatcaaaa ccgcacgtgc 180
gtttgggtta atgcctttta caacaatggg tagaagacca ttcatttttg gcagaagtgc 240
ggaggagcat tattgggatg atggatattt cggctatgtg aagcagaagg atggtgagcc 300
tgttgagaat gaggatgctg agccaaatgt ggaggctgtg taaacattct gaagcatcct 360
tttgcaagcg cttcgttc 378

<210> 53431
<211> 358

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-G2

<400> 53431

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 ccccgagcaa aagagaaaac cctttttttt gtgcgctgtg ctgtttcgcc atatctgttc 120
 gtcccaccga ggcaccgact caatcccat tcttggcctc tggcttcaca aaacaagacc 180
 ggttcccgtt ccctagatct ctgcgtagag gcggcgaggc acccgaatcc ggcaaaaaag 240
 ggttcgcggt ttgccttggg tgggaggagc gcaggagccc ggcgtcaaaa cccaatcttg 300
 gcgcccgggc tgccgtgcgc catcgtcttc tccccctgt ggtgtttagg gagaggag 358

<210> 53432
 <211> 197
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-G3

<400> 53432

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 cattatccac aagaccaagg cctacttcaa gcgttttcaa gtgaagttca agataaagcg 120
 cccctgcat acaaacttca aggcccgat taagcttatt taccagacc aaaaccagtt 180
 ccatacaacc atattca 197

<210> 53433
 <211> 372
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-038-Q1-K1-G4

<400> 53433

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 ggcgctctca gcccgccgc gaccgccaac tctgcccgc atcatccatt cactcttcgt 120
 ctccctatcc gaccgctccg caatccgcct cctgcccgc ccgctcctcg tcttctcca 180

actccgccgc ctgctgccgc ccgacgccgc caccgaactc ctctgcacc caatcgctc 240
gctcctccac ctgcaccgct ccgacatgcg cataggcctc cagcttcacg ggctctccct 300
gtccgccggc ctctctgct actcgacct actgccccac ctntctctct tctactccca 360
ccacccgtcg ct 372

<210> 53434
<211> 352
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-G5

<400> 53434

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caagaccac aagaccaatg cgtacttcaa gcgtttccag gtgaagttca agagaaggcg 120
cgctggcaag acagactaca aggccaggat aagggttggt aaccaagaca aaaacaagta 180
caatacacc aaatacaaat ttgttggtcg atttaaccac aaggacatca cagcacaat 240
catctctgct agtatagcag gtgatatgg tcttgcttct gcttactcgc atgagttgcc 300
acgatatgg cttgaagttg gtctgaccaa ctatgcagct gcctactgca ct 352

<210> 53435
<211> 355
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-G7

<400> 53435

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atacaacttc cagaaatagg caccagcaat actattgttc aaggatcatgt tgatgtcaat 120
gaacaccgat ttgatggacc aagaacaatc gaagaaatcg ttctgttcc attggatgag 180
atacagatcc atgatgatgt cccagggcaa ccgggagcag ccgatgagat agatgaggtt 240
ccattttctg acgctccgat cattggtgct ccattcagac tgatctcatt tgttgctagg 300
tatgtcagcg gcgctgattt ggtcaaccaa aaataactgt ctgcatacca ggaat 355

<210> 53436

<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-G8

<400> 53436

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ctccctatcc gaccggtccg caatccgcct cctgcccgc ccgctcctcg tcttctccca 180
actccgcccgc ctctgcccgc ccgacgcccgc caccacaactc ctctccacc caatcgccctc 240
gctcctccac ctccaccgtc ccgacatccg cataggcctc cagcttcacg ggctctccct 300
gtccgcccgc ctctctgct actcgacct cctgcccac ctctctctct tctactccca 360
ccaccggtcg etc 373

<210> 53437
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-G9

<400> 53437

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ccgggcgag gagctgctgg ccccgacct cgagtgggtg ttccatggc ctcccgcgcg 120
ccagcacatg atgcgcctgc tcaccggcgc tctggaccac cgcggcttcg tcttctcccc 180
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gctctactgg gtgcacgcct ggaccgtggg gcccacatgg gtgatcacgc agctcaggga 300
gtacttcaac accgacctca cgctcctctc cggccagcct gacgtcgggt ccgcatgcgc 360
tgcttcggct aagcagaaag acgctggcct tctctcgtcg cccttcgtgg cgggaccggc 420
agcaggggccc aagtgcctgt gg 442

<210> 53438
<211> 324
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-038-Q1-K1-H1

<400> 53438

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tcaatcccat ttttgaagaa ggatccaaat atgggcgcaa aaaagttaca agaggagcta 120
gaggataaat ataatgtgaa gctaggatac tcaacagtgt gggctggtag acagaaagcg 180
gtggaacaaa tatttgaac atgggaagaa agttttgcag atttgtatag gttcaaggca 240
gagattgacg caaaaatgcc tggaagtgtt gtcgatttag aggtgcanga ggaagaggat 300
ggtgtgtatt ttgcagatt cttt 324

<210> 53439
<211> 369
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-H10

<400> 53439

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tggcggcctc gcctgggcca ccgacgacca ctccctcaac aacgccttca gcacctacgg 180
cgaggtcctc gagtcgaaga tcctcctgga tcgggagacg cagagggtccc gcggcttcgg 240
cttcgtcacc ttctccacgg aggacgcgat gcgcagcgcc atcgagggca tgaacggcaa 300
ggagctcgac ggccgcaaca tcaccgttaa cgaggcccat tcccgccgcg gccgtggagg 360
cggcgggtgg 369

<210> 53440
<211> 315
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-H11

<400> 53440

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cctgctccga caccggaccg acctcatgcy gcaccgatac cgccaggtga cagtcgtatc 120

tggatgaaca gccatgacgg cggaacgagt acgctgcccc gagatgcagc gacccccctct 180
 gcgtcaagat gaaatgaatc aacgatacct cagacttggg tccccctggg gctgtctctgg 240
 gagatcttag ttttaggcac ataacgggtg taaatcactg gctaaataat gacaataata 300
 tttccagagt taaaa 315

<210> 53441
 <211> 175
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-H12

<400> 53441

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 ggcaccgata ccgtcagggtg acagtcgtat ctggatgaac agccatgact gcggaacgag 120
 tactctgtct cgaaatgcag cgacccccctc tgcgtcaaga tgaaatgaat caact 175

<210> 53442
 <211> 370
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-H2

<400> 53442

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 tcaatcccat ttttgaagaa ggatccaaat atgggcgcaa aaaagttaca agaggagcta 120
 gaggataaat ataatgtgaa gctaggatac tcaacagtgt gggctggtag acagaaggcg 180
 gtggaacaaa tatttggaac atgggaagaa agttttgcag atttgtatag gttcaaggca 240
 gagattgacg caaaaatgcc tggaagtgtt gtcgatttag aggtgcagga ggaagaggat 300
 ggtgtgtatt ttgcgagatt cttttgttgt ttcaaacc aaattgatgg ttttctgaac 360
 ggatgcagac 370

<210> 53443
 <211> 357
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-H3

<400> 53443

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atcactcaaa cttttcaagg atggcacggt tgtctgcaaa acatcctctc tccattatct 120
aaaaaatact tctattacat caatgccccca ttcgtcttta gcgcgcgcaa cactgagtgc 180
actgtcccg tcatgagaca cgatgccagc attgtctacg aacgtgtgta ggccaagcc 240
cctgatggtc gcctatctga tcttcaaggc gaccaagatc aagcttacag gaaaatcaag 300
ctccgtgctt aagatgtgca aggcaggaat gtgctcacia acttcttggg catgaat 357

<210> 53444

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-F9

<400> 53444

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gaggctgctg acttgcactc tgttgtcttg tatcttcgcc aggagaagta cgacgtagca 120
gcaattgttg gtcacagcaa aggtggagat gtggtcgttc tatatgcctc tatctacaag 180
gatgtcccca tgggtggttaa cctctctggc cggtttcatt tggagaaagg cattgaggag 240
cgcttaggca aagagtttat ggatagaata aacaaggaag gctacatcga tgccaaagac 300
aaatcacgaa atgttttgta caaagtaacc aacgagagct tgatggaacg gcttgaccat 360
gatttgacg caacgagcct ttccatcagc aaagagtga ggttctatac aattcacggt 420
tcagctgacg agatcatac 439

<210> 53445

<211> 244

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-H4

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atagactgaa gtatggcagg agatcttcca agatctctcc agttcaaagg atgggattac 120
 gggagcttag accacagctg cctaagccat tccagagtac acaaaggctt aactgatcc 180
 tataaaatat ggcatattct atcccaccac attcaccaaa ctttgtatga aaaggctcca 240
 cttt 244

<210> 53446
 <211> 239
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-H5

<400> 53446

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 gccctcacca gaggagtacg cgattttggg actcaatctt ctgaggctgt tggctcagaa 120
 tagaattgct gagttccata ctgagctgga tcttttacct gtcaaggcac ctgtgctcca 180
 ctgcatcaag catgctttat agcttgagca atccttcacg gtgggtgcct acaaccaat 239

<210> 53447
 <211> 360
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-E2

<400> 53447

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 cgtccaggta tggcgcggtg cgcctaacaa cccgttgtgg acatagggtg agctcatgaa 120
 ccaaacagaa atgctttctt atatatccac cttttgtaac gtgtctccgt gaggaatgag 180
 tccatagtat ctcccatcgc cgattacaat gactgctccg acctttatct cttctgaact 240
 gatctgagct ggactgacgt atgtaacagc catggatgca acgaatcatg gaaaaattga 300
 tgtgaaaacg aaaggttttg tgtgttctgg tgcaacttaa gaaagatgac ggctcccccg 360

<210> 53448
 <211> 365
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-E4

<400> 53448

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ctccgcccac cgcgcgcggg ggcgtcgcca cggcggaggt gcccgcgag gccgtcgagg 120
actccacgtt cgtcgaggcc tggaaaaagg tcgcccccaa catcgagccc ccagcgacgc 180
ccctctccct catgcagccg cgcgcgcca cgcagctac catccctacc aagctcaccg 240
tcaacttcgt cctcccctac aagtccgaga tcgccaacaa ggagggtgac atggtaattg 300
taccagctac aactggtcag atgggtgttt tgccaggcca tgttgccaca attgcagagc 360
tcaag 365

<210> 53449

<211> 368

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-E6

<400> 53449

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tggcttagct gaggaaagcc atcgatgacg gcgccgacgt ggctggctac ttcgcttggt 120
ctatcctcga caacttcgag tggcagtcag gttacacgtc caagtttgga atcgtctacg 180
tcgacttcag cagcccaag ctcgaacgac accccaaggc gtcagcctac tggttcagag 240
acatgctcca gaaacactta tgagcgtcta acaaccaagc ctgaaatagg taccattaaa 300
tttcttcagc gctgcctaag ctagtggcca tattattgta gcaaaagttg taagctagca 360
cagtgcaa 368

<210> 53450

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-E7

<400> 53450

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tagctgttcc tctgtgaagc caggctccgc cagcaacact gatcgccact acaactgcag 120
cagcaataat gcctagaggt acggtactgc tggctgcatc gtagttctcg ttgctctctt 180
cctccactgt attgaaattg tatcgttctt gtccgtccga tgcagctgtc cctcaagcta 240
ggaaggcgtc ccttgctcga ttcttggaga aaaggaagga aaggtagaat ccatactctt 300
attctcgggtg attccattcc accacacatc tgttttggtt ttgaggcaga tctgcaactg 360
t 361

<210> 53451
<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-E8

<400> 53451
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ccgcccgcgc cctcgtttcc cgcgcggcg ctccgcccac cgcgcgcggg gcgctagaca 120
cagcggagat gactccacaa tgcccacttg ctccaagatc cattattaca ctggaaaaag 180
gtcgcccccc ataaatgggc ttccaacacc cagctgtgca agcgcatacg cgcccacaaa 240
caattgctgc gagcgtttta caacaaccaa tcaacttagt tgcttcaaca aagcttggca 300
catctaacaa taaaaccat cgcctcatag caccaacaac aaatcctacc agcactgagc 360
cacctagcca tggatgaacc tgacgcctac ttgcaa 396

<210> 53452
<211> 438
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-038-Q1-K1-E9

<400> 53452
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acagcaggga aggtgatcaa gtgcagagcc gccgtggcgt gggaggccgg caaacgcgtg 120
tccatcgagg aggtggagggt agcgcggcg caggccatgg aggtgcgtat caagatcctc 180

tacaccgcgc tctgccacac cgacgtctac ttctgggagg ccaaggggca aaccccgggtg 240
 ttcccagagga tcttaggaca cgaagcggga ggcatcgtgg agagcgtcgg agagggcggtg 300
 accgagctcg cgccaggcga ccacgtcctc ccggtgttca ccggcgagtg caaggagtgc 360
 gccactgca agtcggaaga gagcaacatg tgcgacctnc ttatgatcaa cgtcgaccgc 420
 ggcgtgatga tcggcgac 438

<210> 53453
 <211> 350
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-F1

<400> 53453

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 atgtgcggcg gggcgatcct tgcctagctc cgcgagccgg agccgcgccg ggtcacggag 120
 cgggacatct ggcagcagaa aaagaagccc aaaaggggcg gcgcctgcgg gagggcgctcg 180
 ttcgcggcgg aagacgatga ggacttcaag gcctgcttcg aggactatga agccgactcc 240
 ggtgattcgg attcggagct cggagaaggg gctgacgacg acgtcatcga gatcaagccc 300
 ttcgccgcca agagtacttt ctccagagat ggcttaagca ccatgactac 350

<210> 53454
 <211> 418
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-F10

<400> 53454

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 tgaccagagg tactttcttag atgatcagaa gctaaagaga ttgggatggg cagagcgcac 120
 accatgggaa gagggtttga agaagacgat ggagtggtag accaccaatc ctgattactg 180
 gggagatgtc actggtgcgc tgcttcctca tccaaggatg ttgatgactc ctggagttag 240
 aaggcataac tgggctgaag aaatcaagtc tctggcttct tcgccagctg aagctagtag 300
 aatagctcca gcaaccagta ccaaaagcat ctctgatgcc cctcagaagc cttcctacag 360

gtttttaatc tatggttagga ctggatggat tgggtggcctc cttggaaaga tttgtgaa 418

<210> 53455
<211> 420
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-038-Q1-K1-F11

<400> 53455

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tcccgagcga gttcttggtt gacctcttcc tcttcggacc acctccaagg ctcttggtgt 120
agcttgccac tctcaccaat caagttttca tgtctgatct cgacattcag atcccaactg 180
ccttcgatcc cttcgctgag gccaatgctg gggactctgg tgcggcagca ggggtcaaagg 240
actacgtaca cgtgcgcata cagcagcgta atggtcgcaa gagcctgacc accgtccagg 300
gattgaagaa agagttcagc tacagcaaga tcctcaaaga tctcaagaaa gagttctgct 360
gcaatggtac agtgggtccan gaccagaac ttgnacaggt cattcagctc cagngtgatc 420

<210> 53456
<211> 284
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-F12

<400> 53456

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gatgcagacg ttcacgggga cgctgacagg gatgaccgtc accagcaagg tcgccagcaa 120
caacgccatg gacaatatcc aggacaaggt ccaggtcaag gaagggatcc agccggtgca 180
gtatcccctg atgtatgtcg aggagcacct gaaggatggc cactctatca tggactatga 240
cattacactg gagtttacgc ttaagctcgt gcttaggatc attg 284

<210> 53457
<211> 351
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-F3

<400> 53457

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gcctcgagtt cgtgcggcag ctgctgcgca gaagcgatgg aggcgcgctc gtcgctacgt 180

gccgcacgcc gggttccgcg gccgagctcc agaagctcag ggaggagcac gcgcccgggc 240

gcctcaccgt gctgcgcgctc gacgtcaccg acgagagcac catagaggca gctgcggcct 300

caatcacgga gacccacggg tctcttgacc ttctgatcaa ctccgcgggc a 351

<210> 53458

<211> 364

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-F4

<400> 53458

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atcccgggtga tcgacctgcg cctcgccggc tcgtcgcccg acgagtcggc ggggctgcgc 120

gacgcgtgcg agcgccctggg ctgctttcgg gtgaccggcc acggcgcgcc cgcggggctc 180

ctggccgaca tgaaggccgc cgtgcgcgcg ctcttcgacc tccccgacga cgccaagcgc 240

cgcaacgcgc acgtcatccc cggcagcggc tacgtcgcgc cctgccccgc caaccgcctc 300

tacgaggcct tcgggctcct cgacgccgcc gcgcccgcg acgtcgacgc cttctgcgcg 360

cgcc 364

<210> 53459

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-F6

<400> 53459

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gttctgtgga tacatcatct atgacacgga caatgtcatc aagcgctaca cctacgatga 120

atacatatgg gctgctgttt cactctacct tgacgtcatc aacctgttcc tgtctctgct 180

gcagctgctg agggcagccg atagctgagc tcgtcaagct ttcacttcga tcttggtctc 240
acatacatct gtgtatatca caaactctgt aatgggtcatg gatactccaa ttataacta 300
tactctgtcg gtgttacctt ggttcaaag gtagtctctg ctttaacgga taccatgag 360
agttttaag 369

<210> 53460
<211> 357
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-F7

<400> 53460

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gaatggcttt cctgccata ctatctgtag gcttttgcc agtagcagtc gggtttcgct 120
gtttactggc attaacattt ttactcttct ttctgcagct ccataccctt ttggtatagc 180
ttgacatgcc agcagtggca cagtgccgta ggttcctag aggtgaacta gatgtttgtc 240
agcatgggtt gattttgcc gcctatgcag aaaacctcac ttggtctttg taatgtggta 300
atgccatgta tcagtatcct agtctgatgg agttttggtt gagacagttc tcaaaaa 357

<210> 53461
<211> 292
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-F8

<400> 53461

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aggctaaggt tatctgggtc cttgctgatg tacatgcaac acgtgggttca cttgctttat 120
ctactgcaac agtgaaatcg gttgcaccag atggagagga gaaattagca tgtacagtcg 180
gagcacgttc agtcgatgca agttacatgg ctgttgacaa aatagttcac attccaaccg 240
ttctacgagt atacagtttg acttcatgga cagagcgcat tgacgcaatc tc 292

<210> 53462
<211> 417

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-E12

<400> 53462

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 tcagtactat cttttgaagg tggggacatc tgtggtgttt tgggtcccttg tctgcatgtt 120
 ggaatgtgct tttcatcatt ctgctgacat gttgaagacc atcattttgta ctcaactgaac 180
 tacatgcatt ggggtgctcc aaagatgtgg tatggagtcc caggaaagga tgccgtaaatt 240
 ttggaggcag caatgatgaa acatctacct gacttggtttg aggaacaacc tgatttgctt 300
 cacaacctga ttactcaatt ttcaacttca ttgcttaaat ctgaacgagt accagtctac 360
 cgatgtgtgc accatgaggg acagtttgtt ctaacattcc ttccgggcata ccatgct 417

<210> 53463
 <211> 360
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-C6

<400> 53463

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 ggagagcccc accctctggc tcccaccggc cgtgcttcta cgatggcctc cggcggcggt 120
 ctccggccca ctgcacacac taccgcgcgc gctctacgcg ttccactacg tccaccgtac 180
 gctggtccac ccggtccgcc tcgcccgaact gcgcgcgcc ccggcccccg tgccgtcctt 240
 catcgacgcc tgcgccttgg gattcaatat cctcaacgcc tacctacatg cccgctcctt 300
 cgccctacac tccagccgcc aggcgtccac cttccgctga ctgctgggc tgccctctt 360

<210> 53464
 <211> 353
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-C8

<400> 53464

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acccgaggagt cctgcctgtc ctgcctctcc tcccccttgc catccgcgcg ccattggcgtc 120
 cgcgctccgcc cccgaagtgg tgggtggtctt cgacttcgac cggaccatca tcgactggga 180
 cagcgacgac tgggtcatca ccaagctcgg cgccgccgac gccttccagc gcctgcgccc 240
 aaccatgcgc tggaaaccgc tcatggacag gatgatggcg gagctccacg ccagggggaa 300
 gacgcccag gacatccgcg actgcctcag gagcgcgccg ctcgacacgc acg 353

<210> 53465
 <211> 433
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-C9

<400> 53465
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 aaagccctca ggcaagagttt tataaagcaa cacgaagcaa ggaccgcatt gcaagatttc 180
 agattagaga actaactgta gagcctggaa cgtgggttag cttaaccatg tatacataac 240
 gttcaaacat cgttctgact tctacaaaaa gttaagagga tctgaaattc taaatcttgc 300
 ctacgccttt ttagttagat tgggaagcaa gatagcttcc atgaccacag aaaaataact 360
 attcttttcc tgggtgaatt tctagaagtt ttgagataaa ataaataaaa ttttttttta 420
 ttattttattt aat 433

<210> 53466
 <211> 333
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-D1

<400> 53466
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 acgtcttcta ctgcatgaac ccgcgctgcg acagggcgcg ggagatggag gagcgcgctcc 180
 tcggcttcct gcgcaagtga ggcagcgact gatcgcgcg cttgctacgc gattgagatg 240

gaataatttc accgtttcca gatgtggagg cgtttgagca tgaggccatg aggggtttat 300
 ttgtttgctt aagatcaatt gattgaagtt tcg 333

<210> 53467
 <211> 240
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-D10

<400> 53467

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 cacttcaaag tttcagtata tgcaaaactg aatatgctgc ttcaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa taaaaaaaaa 180
 aaaaaaaaaa aaaaaaaaag aacgaaaaaa taggtgtttt ctatcgtgac cccaatttaa 240

<210> 53468
 <211> 59
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-D11

<400> 53468

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<210> 53469
 <211> 442
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-038-Q1-K1-D12

<400> 53469

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 gacaagaagg ggcggaagaa ggccaagaag agcgtggaga cgtacaagat ctacatcttc 180
 aaggtgctga agcaggtgca cccggacatc ggcattctct ccaaggccat gtccatcatg 240

aactccttca tcaacgacat cttcgagaag ctgcgccggc aggcgggcaa gctcgcccgc 300
 tacaacanga agcccacat cacctttccg gagatccaga ccttcgtccg nctcgttcta 360
 cccggcgagc tcgccaagca cgccgtctcg gagggcacca aggcggtcac caagttcacc 420
 tcgtcctaag ctctttttct ag 442

<210> 53470
 <211> 359
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-D2

<400> 53470

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 acaaattgaa gtggtggtgt agtaataaag aattgcacag tgataattag gtccctcca 120
 tgacttctaa tatctaaaac atgggatttt gtagctccta gttcatgact acattcatcc 180
 atatgcttct tccaagtac tagtcaatac aaaaacgctc atgtgaggct gtcctctttc 240
 cgagtactag ccatatgctt cttttagtct gtactttctt tgtaaggctt atgaactctc 300
 ttgaactccc tgcatttgcg gcaatttctg ctgctcctcg tcgttctctt ccttcggct 359

<210> 53471
 <211> 362
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-D3

<400> 53471

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 tctctagtgg atgctgctta ccgaaaggca aagtcattga aggcggctag caaacggggt 180
 cctggtgcaa gcaaaggaaa gaaagagaag aatgcaagac aatattctga gaagactcct 240
 aacaggcatg aggagatgct tgagctgttc cagaatgata tgagtgaatg gaaacaggga 300
 cgctcctcaa agaaaaacaa caatttcgct caaaaaaat caaaagcttt taatagcaaa 360
 gc 362

<210> 53472
 <211> 360
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-038-Q1-K1-D4

 <400> 53472

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 atacatgaaa tttcatcctg gaggtgttga tatgcttatg aaagccgctg ggaaagactg 120
 cactgctttg ttcagtatcc ttctattatt atttctgcac tgtgatacat tatcttgctg 180
 cttgtgggct catactggaa caccattctt attattatgc aagctgggtg ggcctaaagg 240
 catgatatac aaacagcgat cactatgatg cctttgcagc ttttgctcaa tctcttcgtg 300
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<210> 53473
 <211> 144
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-038-Q1-K1-D5

 <400> 53473

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 acggcaagaa atccaaactg ggctttactg tgtacccatc tcccaggtg tcaacacttg 120
 ttgtggagcc ttacaacaga gtgc 144

<210> 53474
 <211> 246
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-038-Q1-K1-D6

 <400> 53474

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 tgccacctat tttactcat ttgccttcac tgaccacgtc tgactggtaa aacctggaa 180

atcctaactt aaccgaactt aatccatccc ccttttatcc agctttcgtc atttggaaga 240
tgcccg 246

<210> 53475
<211> 353
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-D7

<400> 53475

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ggatacacia aaggcgggtc atcttcattt attctgatta ctatcagtag ttgggttcctc 120
gttatgtcct ggcttttcgc gccttacatt ttcaaccctt ctgggtttoga gtggcaaaag 180
actgttgagg actttgatga ctggacaaaac tggttacttt ataaagggtgg agttggtgta 240
aagggcgaca acagttggga atcttggtgg gatgaggagc aggcgcatat ccagacattc 300
agaggacgta ttcttgagac aatcctcagc cttagatttc tcatgtttca gta 353

<210> 53476
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-D9

<400> 53476

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ccaccgacc cgtacggccg cgcgcccgtc gaccccgatc cgtacgggtc acctccgccc 180
cagtccgct acgggtggggc cggggacgcc tacggccaca gcggccaagg ctacgcgccc 240
ccgccggcct acgggcgccg gggcggttac ggcaacgtcg tccacgtcgc gcacgaggtc 300
ggcgacgaga ggccttacta cggcgggcggc ggcgggcggtc ttggtggcgc ctacggaggc 360
ggtggctccg agtacgggca cgagggccga ccgtaccacg gcggcgggcg atcccagtac 420
ggtcacgaga cacg 434

<210> 53477

<211> 359
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-038-Q1-K1-E1

 <400> 53477

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 catcgacccg aacttccccg tggactacgc cttcttcgag ggggcctcgt cgccgattgt 180
 ggacgggtcc ttcacctaca gcaacatgtt cgacgcgaac cacgacacgc tgatatgggc 240
 gctgaagaag aacgggttcg ggaacctgcc cgtgatcgtc ggcgagatcg ggtggccgac 300
 ggacggcgac cggaacgcc aacgccagat ggcgacgcgc ttcaaccagg gtttcatga 359

<210> 53478
 <211> 368
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-038-Q1-K1-E10

 <400> 53478

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 ccatctgcct gtttggcttg gatttggcgc ggcgatcaag cacatcatgc agaaggacat 180
 caggaacatc catatactga aagagatgta caatgagtgg ccattcttca gggtcaccct 240
 tgatctgctc gagatggttt tcgccaaggg tgatccagga atcgcagctg tgtatgacaa 300
 attgcttggtg gctgatgatt tgcaatcctt cggcgagcaa ctgangaaga actatgagga 360
 gacaaagg 368

<210> 53479
 <211> 436
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-038-Q1-K1-E11

 <400> 53479

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 ggcctctcag cacttttcta tgctttactg gaatgggaga tgactttgca atacatagct 180
 gttttaagcg ttgggctgac tatctacttg cgattctcta catatgagga ctccgaggat 240
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 tgggcagcta agaagataga gccaaacaag gtgggcctgc caacgtctcc ttccacgacg 360
 gcggtgaaag accgggttct tcaaggccgc gcgaaacacg agtcgcagcc atcggatgcc 420
 gacgagtcgt cggtcc 436

<210> 53480

<211> 365

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-C5

<400> 53480

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 gctctggcga acgtagctgc ataccagcaa caacaacagc tgcaacagtt tatgccagt 180
 ctcatgcaac tagccatggt gaacctgcc gtctacctac aactactttc atctagccc 240
 ctgcggtgg gcaatgcacc tacgtaccta caacaacagt tgctgcaaca aattgtacca 300
 gctctgactc agctagctgt ggcaaaccct gctgcctact tacaacagtt gttccattc 360
 aacca 365

<210> 53481

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-B1

<400> 53481

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aaacttagga atcattgcac aataattaga accgcggaac tgtctgctgg tcaagaccat 180
ctaactgatt tggagaggca aaaggatgat attatgaggc cctattcccc tgccgctctg 240
ctcaacatgc tacatacatc aatggcaaaa gcggatgagg agcccaggga gctgcaccag 300
atgttcctgg agaatgacat agtccttaca acctttgtgc agaagtacaa gaagcttctt 360
acggattacc acaagcaggc attgcttcat gtcgc 395

<210> 53482
<211> 436
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-038-Q1-K1-B10

<400> 53482
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ccccgccggc gccgctcttc gagccccggg agctcaagtc ctggctcttc taccgcgccg 120
gcatcgccga gttcgctgcc accttctctt tctctacat ctccatcttc accgtcatgg 180
gcgtctccaa gtccacctcc aagtgcgcca ccgtcggcat ccagggcatc gcttggtcct 240
tcggcggcat gatcttcgcc ctctgtctact gcaccgncgg catctccggc gggcacatca 300
acccggcggg gaccttcggg ctgttcctgg cgaggaagtt gtccctcacc agggcggtgt 360
tttacatcat catgcagtgc ctgggcgcca tctgcggcgc gggcgctcgtc aaggggttcc 420
agcangggct gtacat 436

<210> 53483
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-B11

<400> 53483
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aattcaccag gctagagcta gctagctggc tctaccgccg ttccccgata gagcgtccgt 120
catggagatt gatgagatgg agagcgggtgt cgtcaatgga agcggcgggc gcgggctcgtt 180

ccggcggggcg aggtgctggg agctgctgtg ctcggcggcg ggcattgctct ggggcaaggt 240
 cgtcggggttc gcccgaagc tgggcaggat cgcgaggac gacccccggc ggggtggcgca 300
 ctccatcaag gtcggcctgg cgctcacgt cgtgtccgtg ctctactacg tcaggccgct 360
 cttcaacaac tgggggggtgt ccaccatgtg ggccgtgctc accgtcgtcg tcgtcatgga 420
 gtacaccgt 429

<210> 53484
 <211> 401
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-038-Q1-K1-B12

<400> 53484
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 ccgactccaa gaaggtgacc cctgaggtga ttgctgagta caccgtccgt accctccaga 120
 ggaccgtccc tgctgctgtg cctgctgttg tcttcctctc tgggtggacag agcgaggagg 180
 aggccaccg caacctcaat gccatgaaca agctcagcac caagaagccg tgggtccctgt 240
 ctttctcctt cggccgtgcc ctccaggcga gcacnctcaa gcctgngctt gcagggtggag 300
 aacctgnaga aggctagagc tgccttcctc gccaggtgca aggccaactc tgaggctacc 360
 cttcgcacct acaaggggtga tgctgccgcc gacaccgaga g 401

<210> 53485
 <211> 141
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-B2

<400> 53485
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 tggctcaaaa aaaaacttat gtctgcttac ccaacatctg ttgaaaaagc caggggaagg 120
 attttttga ccatttcatt g 141

<210> 53486
 <211> 369

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-038-Q1-K1-B5

 <400> 53486

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 gttgcacagt tccgcccaga aaaggcccat ggccttcagc tggaggcatt tgcacttgct 180
 cttcaaaagc tagaccctga ctttcctaag ccaaagattc aatttgctgg tagttgccgg 240
 aataaagagg atctggacag actacaaaag cttaaggaca ggtccactga actacacata 300
 gatgagcttg tggagttcca caaggatatt tcttacaggg acctggtaca atttcttggg 360
 ggtgccatt 369

<210> 53487
 <211> 361
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-038-Q1-K1-B6

 <400> 53487

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 tttgaccgac aaagaatggc gtaggagaaa aatgcaaag aggatatcag aggaagaagg 120
 aagacttaag aaggatgagg aggaaacaaa agagatgtgg aagaggaaga gagagcatga 180
 agagaagtgg gaggagacca gagacaagcg ggtctccagc tggagggatt tcatgaagac 240
 aggaaagaag ggacggaaag gtgaaatcaa gccccaaaa ctgaagactg aagatccgaa 300
 caaatcttat gtgcaaaggc cagtaaagcg aaactgagtg gaatgtcagc aatcaaagaa 360
 c 361

<210> 53488
 <211> 371
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-038-Q1-K1-B7

 <400> 53488

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gcaaagaagg caaaatgcaa aatagggtat cgcacggcac tttagcacia tggcatgtct 120
ctaatagggt atgcattagg aggtaaaatg catatgagag gggatatgca aaatacagta 180
ttgatttgca tatgcatgat ctgttggagg aatctatact atatgttttt tttgtgaaat 240
tgaaagaaaa gaaactaccg atctgaattt attaactagc atgatgcgga tcaaccgaag 300
acttaggctg ctgcaaaagt tatagtctat ggcgggaagc tatatgcagg aggggtggttc 360
cggttccctc c 371

<210> 53489
<211> 359
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-B8

<400> 53489

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acgccaggca cactggaccg tgcgctaccg tactatccgg cgctcccggt cggctcgtat 120
taccctccgc cggggacacg gtacttcgag gtcgacggcg cggccaggac gccgtcttac 180
taccaccgc cgagtcaata cccgtaggag ttcggcggat aatctgcaac gttgtggaac 240
agtggacgat gtttccaagg ttgctccgcc gcttcccgcc atgattgcca ttgaagacag 300
gtcatattgc cgcggtgcgt ggcgtgggtg ctaggctgca atatgccggc ttgttcggg 359

<210> 53490
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-B9

<400> 53490

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gtgagagtgg ggattcaagt ttcaaactca ctatcgaggg gggataggaa ggtggtcact 120
catcgggtcca cagctagctc gtcgcccccc atggctgact ggggccccgt ggtgatcgcg 180
acggtgctgt tcgtgctgct cacgccgggc ctgctgttcc agctgccggc gcacggccgc 240

atcgtcggat tcggcaccat gcacaccagc ggcgtcgcca tcctcgteca cgccgtcctc 300
tacttcgcgc tcatcaccat ctctctcatc gccatcggcg tccacatcta cgccggctag 360
ctagggccgg gtgtcttcta ttccacacc ccttcgtctc ttctctcat tatcggtccc 420
tgctagcttc ctagtcatgt 440

<210> 53491
<211> 362
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-C1

<400> 53491

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caccaaggat actgagtagc tgaactgcag cttgctgcat cgctaaccac aaaggcccaa 180
gttattactt ttgagacc tattttcagt tctagccct ccttcccat ttcgattttg 240
tttgtaagt cctcccgatc tgtatttatt aacttgcag atgcgggtca ccgaagactt 300
aggctgctgc agaagttttg tctctggcgg gaagctatat gcaagagggt ggtaccggtt 360
cg 362

<210> 53492
<211> 262
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-C10

<400> 53492

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ttgggtccgc tgattttctg ctgagagccg atgtcgagga ctaatggatg tccgtactcc 180
cgagccctta gaggaggggt cgtccatacc gtagttgttg ttacaactcc gatggattag 240
cttgtgagcc actgtgcttc tc 262

<210> 53493
<211> 395
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-038-Q1-K1-C11

<400> 53493

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tgtgccggac cccaaatcgt tatcacctaa ataaccagtc aagtcgcaag tatgaatgga 180
cttttgagga ccattgtgcc ctgttgaact catgtattac cttgtgaagt ccgttgtgtc 240
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attaaccata cttctatatg gtttgtggtg ttgctgtttg tttaatctgt cagctgcttg 360
acgtttcact gaaagaaaga cgttccagtg agcgc 395

<210> 53494
<211> 419
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-038-Q1-K1-C12

<400> 53494

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ccatagctct agcgtgtgga agtaaagctg gctttgcgtg tatgacatgt ctaatgccaa 120
cccaatcgtc agctttggaa tgaagcgtgc cattgatgat atactgaaat gagttgatca 180
gtgcaattct ttgacatcta actatttatt attatatgag atgggaggaa ctgatggaga 240
ataaatgctg ctgtagatnt gtagaagttc aaaaaaatt gggtagctct tgacaagttt 300
gtagcccaag gggtagatca tacagtttga gatgaggaca ctatgtatac tgtttgagac 360
gaggacatta tggatactac tctagaaggc taccgaaacc aaatttgcac ctgtttatt 419

<210> 53495
<211> 358
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-C2

<400> 53495

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gtataacacg tgaacacatt ggtgctgatg taaagtcgag caggaaggaa caatacagag 120
atcattcagg ctagtgggtgc tctgatcaag atatcagata ggggtgacta tataatctggg 180
acatctgaca ggaaagtgc tattactgga acacccggag ctatccggac cgtggagtcc 240
atgatcatgc agaggggtgc agccagataa cagaggtgat gagcccccttc tgaaggaagg 300
gcgtaagcca ttgctgtgtc cgagcacaga atcgtgtttg atgcaagtta ggaggatg 358

<210> 53496

<211> 364

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-C3

<400> 53496

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cattcaggct agtgggtgctc ggatcaagat atcagatagg ggtgactata tatctgggac 180
atctgacagg aaagtgcaga ttactggaac acccgaagct atccggaccg cggagtccat 240
gatcatgcag aggggtgtcag ccagttcaga gaggtgatga gcccccttctg aaggaagggc 300
gtaggccatt gctgtgtccg agcacagcag cgtgtttgat gcaagttagg aggatgtggg 360
aact 364

<210> 53497

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-C4

<400> 53497

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tgcgcggcca cgggatcctg acgcgtagcg ggagccagtt cggctcggac cggaggtacg 180
 tccgggtcag catgctcgac cgggacgatg cctacgacat cttcgtcaag cgctctcct 240
 ccctgcactg aacaggccgg gtcggctaca cgcatgcatg gcatggagat gggaggagga 300
 tcgatgccat gccgcccggc cggcgtcggc attgccggtc cgtggaacag tgtgag 356

<210> 53498
 <211> 423
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-A9

<400> 53498

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 ccgcccaccg agatggggcg ggacgagga atcctcctcc gcgagtggcg gagaaaaaat 180
 gctatggaac ttgagaaaaa agaacagaag gagagggagc tacgtgcccc aataattgct 240
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 atggtgaaca acagagagag ggagaagatt tttgtagcca gccaggagaa attccacgcc 360
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 atc 423

<210> 53499
 <211> 395
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-H11

<400> 53499

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 cttctattac tagtgcagaa gtaagccagg atggcagggt catcactaca gcagatggct 240
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gcaatgtgga gtcagcttca cttgaaccca agtctgggag taaatttgta gctggaggag 360
aagaatttgg ggttcatgta ttcgatttct tcaact 395

<210> 53500
<211> 255
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-H12

<400> 53500

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ctacaacccg gactaccaat acgagtacat gctctggacc tagagcctct acatccgcaa 180
ctgctatcgc tgcgtccgca tgggtcaacaa catctacctt aactactacg ccttacacgg 240
tgacgaggcc cactg 255

<210> 53501
<211> 401
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-037-Q1-K1-H2

<400> 53501

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cggggaagac catcaccctc gaggtggaga gcagcgacac cgtcgacaac gtcaaagcca 180
aaatccagga caaggaaggg attccccag atcaacagcg actgatattc gctggcaagc 240
agctggagga tggacgcacg ctggctgact acaacatcca aaaggagtca actcttcatt 300
tggtcctcag gcttangggg ggaaccatga tcaaggtaa aactctcact gggaaagaga 360
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<210> 53502
<211> 401
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-H3

<400> 53502

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ccgggggagg aggtggcggg ggtggtagcg gtggcgggtg aggcgggtgg tacggaggac  180
caggctatgg gtccggatca gggtaggtg agggcgggtg cagcggagggt gctgctggag  240
ggtagtgaca tggtagtgcc ggcggcggcg gtggtagtga gggtagcggga gctggtaggct  300
ctgggtatgg gtccgggcaa ggatctggct acggagctgg cagcgggtgct gccggtaggat  360
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<210> 53503

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-H5

<400> 53503

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cggtagtcag cgtcaacatc gagcaggagg tgaagggtga cgggaaccaa atcatggaca  180
tgtacatgaa gagtatgcag caattcacgg attccctggc caaaatgaag cttccagcct  240
tgacataga caacggtagc agcgggaaga gcagtccgc agcagccaca cccagcgcag  300
actccactgg tgccgactcg accgcgggtga agaagccgac cgccgccggg cagcaggaga  360
agccctctcc caagggtgtc tacggcagcc ggcggttctt ctgatctccg gttcgtgat  420
cagcggtagc acac                               434

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<210> 53504

<211> 414

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-037-Q1-K1-H6

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ttttcacatg gatgaccgat gcaggactct gccctccaat acttcagata aagcgagctg 180

atgtggttgt gttcagcata gctacctcta tcattatgca ctgctatgcg caggaaagag 240

aagtcttccg gtccaagtac ctgaatgtgc tggactgggt atttggtgtg ccgncaccac 300

ccgacagtga ggataagaac tgctatctac cagatgaagc caggaaatgc cagtgcata 360

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-H8

<400> 53505

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taaaaaccct tgagttacat accttattct ctttatatta tatc 224

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<211> 323

<212> DNA

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<223> Clone ID: LIB3079-038-Q1-K1-A1

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cactaatact agacgcattc tcaggtccgt atgttcaca gggcacaaca acacaatggg 180

agcctgcacc ttcttaaagg cactgcacgt ggaaagcgct ccgggggtccc cagttacccg 240

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323

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<211> 256
<212> DNA
<213> Zea mays

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gccgaaggct ccatatttca caatgcaact ttgctgaat gttaatttac tgcgccaaat 180
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ttattatact ttaact 256

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<211> 438
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<223> Clone ID: LIB3079-038-Q1-K1-A12

<400> 53508

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cgcgcgga gcggaata tgtcattgac tgcgcgggaa atgagttagc gagcgcgca 180
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caagctgccc tacatgatca tatgaaatat ttaaacaaga agaaagcggc tgaagagatg 360
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<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-A2

<400> 53509

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atttggctct caagcaactc agatttgatt cacaatgagc cgattcctag acatcagtgg 180
agatgtataa gtgcattctt acactctgat tgatggacac cctagtggtc caattttgga 240
acggattatc ttatatgggt ttgaccagat tctctaattc agcttttcag attgacaaga 300
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<210> 53510

<211> 225

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-A3

<400> 53510

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cacgaggcca cggagggtggc cgaggcgccc gtgtcgacgg acaccgacgc tacgaccgtt 180
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<210> 53511

<211> 354

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-A4

<400> 53511

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cctcaccgcy ctctggagga agcagcgca gagcggccag gtggaccgcy ccaaagcgac 180
gcagcagggg acctacgagt cgctgtgccg cgacgcgacg atcctgttcg gcacgtggga 240
gttcgacccc acggagatcg agaaccggtt ccccgacggg gagggcggcg tcagcatctg 300

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<211> 221
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<210> 53513
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-A7

<400> 53513

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accacggaac tggctgctgc tcaagaccgc ctaactgatt tggagaggca aaaggatgat 180

attatgaggt cctattcccc tgccgcactg ctcaacaagc tccaaacatc aatggcaaag 240

ttggatgagg agtccgagga gctgcaccag aagttcctgg agaaggacat cgaccttcca 300

acctttgtgc agaagtacaa gaagctccgc acggcttacc acaagcaggc gttgctccat 360

ctcgccggcc ag 372

<210> 53514
<211> 353
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-A8

<400> 53514

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cacaagggtg ctaactatgt ggttgagaaa ctctgtcttg acaaaccatt ggatggaggc 180
tctgatagta cgtttggtat gggattgagt tctgctcaat cacagctctc acagctagat 240
agttcttcgc ggcttggact aaagccatgg caaaaaacaa agccatgtat tgaggatttg 300
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<210> 53515

<211> 172

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-G9

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tgtaagcaca ctggtacggg aacaccggca tacttgcata ttgctgcagc acacgatgga 120
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<211> 298

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<213> Zea mays

<223> unsure at all n locations

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tgatctgctt gcatgaatct gtttggctgt cgagccaggc tgtggtgttg aaaaaccttt 180
gtttgtgtcc tggccccctt gggtaatgtt tgggtgtttc cttccatcat cacttgctga 240
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<210> 53517

<211> 395

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-037-Q1-K1-F5

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 ataaaaacaa aaaaaaaaaa aaaataaaaa aacaaaaaaaa aaaaaaaaaa aaaaaataa 180
 aaaagaaaaa caaaaaaac tacaaaaata aaaaaaaaaa aaaaagggcc gcccgcttta 240
 caggacccaa ttttatgtcc ccgcacatgc aaagtaataa ctcttctata gggctaccta 300
 aactaaatta actgccctcg ttttaacaac tccgtgattg gaaaaacctt ggctgtaccc 360
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<210> 53518
 <211> 365
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-037-Q1-K1-F7

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 agtatccttg atgcgaaata taattctctg atttgtttag taactgagta atccatacga 180
 gtgttctgca gatattctac tttgttgat ttggattgtt ttgtctggaa tcgttgctca 240
 gcatctgggt catccagcaa gtgtacatgt acttccgtgg aagtggaaag gctgcagaga 300
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 <213> Zea mays

 <223> Clone ID: LIB3079-037-Q1-K1-F8

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 accagctcgt cctcctcttc gatgcaagct ttttccgacg ggcgtcggct ttcctcaacc 180
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 tcgtcatcga cgcgcctcc ctcttctccg tcctctggaa gggagtgagg ccgttcgtgg 300
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<210> 53520
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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-F9

<400> 53520

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 atgctgccat gaccccgatg gaccatact ctgcatcaat atacttttgc tacattgaac 180
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<210> 53521
 <211> 405
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-G1

<400> 53521

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gagtataggg gttcttttagc cttttggcaa tccagtcttt tacgc

405

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gctgcagcca tggctcttgc acagcaccct gttgtcaata gtacctgcag ggatggaaag 180
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attacacctg tccttcagga tgcagacaag ctggatattt atttgctctc gcaaaattgg 300
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<210> 53523

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-G11

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<211> 353

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-037-Q1-K1-G12
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 tttctgacag agaatcattg gcgccgtgtg atgtaccagt atttgtttac gatagctgtg 180
 atgaatattc atggcaaaga gctagagact tgcttggtga agtgggtaca catggagaaa 240
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<210> 53525
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 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-037-Q1-K1-G2
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 aatgataaca catatgaccg tttatgtata cctctacgga cgctgtatc ttgtcctaaa 180
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 gtaaattgga ctaaagacag acttcaacat atatgcttcc atatctctct cttgctccct 360
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<210> 53526
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<210> 53527
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 <212> DNA
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<223> Clone ID: LIB3079-037-Q1-K1-G5

<400> 53527

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<210> 53528
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 <212> DNA
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<223> Clone ID: LIB3079-037-Q1-K1-G6

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ctttgcaagc attcatagac cacggcaccg tttcaaggac agttgatgcg aacgtgtctt 360

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<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-G8

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aagaaggcgt acgagctctc cgtcctctgc gacgccgagg tggcgctcgt cgtcttctcc 240

agccgcggac gcctgtacga gtacgccaac aacagtgtga aggctacgat cgagaggtac 300

aagaaggcac acgccgttgg ctctttctct ggccccccac tcttagagca caatgccag 360

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<210> 53531
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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-F3

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tcgagcactt ctccatggtc gcgcagaggc ttggcgttta cactgccagg gactacgccg  300
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<210> 53532
 <211> 433
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-D7

<400> 53532

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<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-037-Q1-K1-E1

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 tttatcagcc atatgtagta tactagtatg ccatgtttta taggatcata gcaacttcag 240
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 <211> 359
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-037-Q1-K1-E11

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<210> 53535
 <211> 383
 <212> DNA
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 <400> 53535

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ggagctggtg gacctgccaa tagcggcgag actgtgtcat ctgagtggcc tccgcacccc 180
gaatcggata cagtcatgtc ggaagcacgc gaagggggtg gcttttttga ttgagccaga 240
ggttccaatt atcaggcgat aaggtagctg ctgttagctg tcagccaaca tgagtaaaag 300
gaggctacca cctaccatac gctatctgtc ttcattcgga cgaggtttct cgcaagggtga 360
tcgcttgctg ttacagctga aac 383

<210> 53536
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-E2

<400> 53536

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gccatgtcgc cgacgtcaca ccacaatcca caaccgctcg aagcgaagca agcaatggcc 120
ggagtcggat cgaatgccct cgccgatgcc gccgatctgg cagacgtctc cttctcgggtg 180
gccgacgcgg ccgaggcgcc cgcgcccagt cccgtttccg ccaccgtcgc ggcgtcgtcg 240
ccctttgccg cggttctcgt cgcttcgcc gccgccttcc ttttggccgc cgtccgcaat 300
tgagccgatg gggcctcaag cctgcaggct acctagcaga acttcccccg ccgcctcggc 360
cgccg 365

<210> 53537
<211> 327
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-E3

<400> 53537

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gacgtgcctc gtacactcat tacttttatg aagcaactgt tgggtgctggc ctcccaatca 120
ttagtacctt gcgaggctct ctggagacgg gtgacaagat actgcgtatt gagggcattt 180
tcagtgaac tttgagttat atatttaata atttcgaagg aacaagggca ttcagtgatg 240
tcgttgctga agcaaaagag gcgggataca ctgaacctga cccaagagat gatctatctg 300

gaactgatgt tgcccgaaag gtcatta

327

<210> 53538

<211> 400

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-037-Q1-K1-E4

<400> 53538

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cagatcccgc ccttgcgatg gagtccgtgg tgaacccgaa ggcatacccg ctggctgatg 180
cgcagctgac gatgggtatc ctcgatatca tccagcaggc cgccaactac aaacagctta 240
agaagggagc gaatgaagcg acgaagacc tgaatagggg catatcggag tttgtagtga 300
tggcggcgga cacagagcct ctcgagatcc tgctccacct ncccttggtg gctgaggata 360
agaacgtgcc atatgtgttt gttccatcga agcaagctct 400

<210> 53539

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-E5

<400> 53539

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tctccggagc gcacgtcaga tcaggtgcgc cgcgcccccc tcgcctaagc tgcgacgacc 120
atccatcgaa caggaaggat gacgggctcc atggatctcc cggccaaggc cgggttcagc 180
ttcgacctgt gccgccgga caacatgctg gagaagaacg ggctcaaggc cccgggattc 240
aggaagaccg ggacaaccat cgtcggcctc gtctttcagg atggggttgt tcttggggca 300
gacacaaggc caactgaggc ccccatagtt gctgataaga actgtgagaa aatccacttt 360
atggcaccga atatatactg ctgtggagca ggaactgctg cggacacgga ggccggtaca 420
gatatggtga gcttccagc 439

<210> 53540
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-E7

<400> 53540

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tgattgctcg gcttccacca gtggcttctt atgtttaccg gagaattttc aagagtggga 120
aatcaataga agccgataat tctttggact atgcggcaaa tttctcacac atgcttggtt 180
ttgacgaccc aaaaatgctg gagctgatgc ggctctatgt aacaattcac actgatcatg 240
aaggcgggaa tgtcagtgtc catactggtc atctggttgg gagtgctctg tcagatcctt 300
atctttcttt cgcagcgggt ctaaattgggc tagctgggcc actgcatggc cttgcaaata 360
aagaagtgtc tttatggatc aaatcttgaa ttgaagaaac tgggaatggt gttaccacag 420
atcaacttaa agacta 436

<210> 53541
<211> 270
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-F10

<400> 53541

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aggtgagtct caaaaaaagc gcgtctcatg ccaattaaag aatccattga tcacaaagaa 120
gctttgttcc aatcccccta attacccatc ctcttcatca ataactatgg cttcttctgc 180
aactctgcta ccataaacat gtgctccaaa tgccacaatg atattattac taatcattat 240
catgccaac ttgctttcta ctctatcgac 270

<210> 53542
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-F11

<400> 53542

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atgctgcagt gattttgttg ctgccaaatg caatgttgct tatatttgtc agattgaaca 180

gaatcacact gtagctaata cagtatgcaa agctctcatg tcatagatta agaaaactca 240

aaaccagtga ttaacaaaat ggtagacctg ggagagtgcc cccatattct ttatccactt 300

ctacctagtt attctagagc ctaaggctat tcggactcat accactctta atttggactc 360

taaaagaaat attctattct tggcaacaaa attctttacc ctatactaca attcttcgca 420

gtca 424

<210> 53543

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-F12

<400> 53543

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cgtgatgaag ctcaggacag agctcccgag ttgaagatga actccatctg cgaggaatcg 120

aagctccagc atcagaaggt cccaaatgac ctgttgagc atgccaaagc tgatgctcaa 180

acagctctcg aggagataga tcttgactaa gaaacatgat gatatgcccc aacttcatgt 240

tttggcgctg atgaaatctc tgatccctct ggggtgacag actggatatg gcaaacacgt 300

ctgattatat attgatgaca tgtaaaactc aattgactga actacggatc tgaattgatt 360

gatgtcatag ctgctgctat tgacattcaa aaaatttacc ctatactaca atacttcgaa 420

atcatatta 429

<210> 53544

<211> 379

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-037-Q1-K1-F2

<400> 53544

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 gaaggcaatc gagaacgcga tccccggcgg cgcggtgctg gcgggagctg tggcgcgggc 120
 tgacgtacct ggtgatccag acggccgggt tcatgcggct caccttctgg gagctgtcgt 180
 gggacgtgat ggagcccatc tgcttctacg tcacgtccat gtacttcatg gccggctacg 240
 ctttcttctt cgcaccaag aaggagcctg cgttcgaagg cttcttcgag agccggttcg 300
 cggccaagca gaagcgctg atgcgcgcc ggggcttcga cctccgcagg tacgaggagc 360
 tccggagagc ctgcngcgt 379

<210> 53545
 <211> 414
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-037-Q1-K1-D6

<400> 53545
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 gctgacgggc tggaatccgc tggcgcccgt cctccagacc gtcgccgctt tctcccgcca 120
 catcctcatc gccccgacg cggggctcga cgaccacgc ctccgcccc ttctagcgct 180
 ctccctctcc ccgccttcgc cggcaccacc gcaaccggag gtccggaagg agaagaagga 240
 tgccaaggag gcgccaactga cgaaggagga ggtcggccgg gccacgtgga tgctgcttca 300
 caccatcgca gcgcagttcc ctgacgaacc tacgaggcaa caaagacggg atgcaaagga 360
 gttgatgcat ataatctcga gactatatcc ttgcanagaa tgtgctgac actt 414

<210> 53546
 <211> 221
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-C11

<400> 53546
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 tgggcgctct tcacatccat ggctacgaac tcttccatcc taatcgctca ctacactata 120

actatacaca attccaatcc catgctccca accttcacg ccacctacac ctaaaccct 180
ctcataacac acctatcact gcattcaacg aatacatatt t 221

<210> 53547
<211> 362
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-037-Q1-K1-C12

<400> 53547

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taggtggtga cctcccttcg gttaaagatc cgcgacaaag tttctaagtt gagtttgatc 120
tttgaagtgc aaaattgttt tgatcatacc ttgangacat cctaaaagca ggtttgggat 180
tcatataacg agtttttaat gagacaaaca agttctaggg tcaaaggcaa tatgaatgac 240
atgtagatt caagtattca acaggatctc taggagtaga tcagtggggt aaactgtggt 300
ctgtanggta atttcaggtt cttaactaat atatcaaac agtattagat tgttaccgtc 360
ag 362

<210> 53548
<211> 338
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-037-Q1-K1-C2

<400> 53548

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gcagcgacga cacggactcg atggcgccgg gcacgccgc gacgcgaagg gcgttgcgct 120
tcttgctggc gagcttggac acgacgagcg ccgcggacgc ccgcgcgccg cgctcggcgg 180
cgcccttcca gctgagcatg tccacgaggc gctccacgac ggcgggcgac gtgccgacgc 240
ggcgcagcgc gccgtccccg agccgcgggc tcgcggccac gttgacgagg atgccacgc 300
cgatgcgctg ctcgctcgtg gacccgncga cgatgagc 338

<210> 53549

<211> 449
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-037-Q1-K1-C3

 <400> 53549

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 aaccataaag tcctctctcc gttctaagct acactccttt ggagttaagg aagagcttac 120
 tgttttctcaa atcaaggctg aaatggagaa gaccctgcgg tggcttgtcc ctattgcaag 180
 taacaccacc aaggctcacc atggtttcgg ttgggttgga gagtgggcaa atactgggtc 240
 agatgtgaac tgcaagccaa atgggcagat agacctgac cgaattgaga cactgtacca 300
 cgctgacaag gagaagactg aagcatatat cctcgagctt gttatttggc ttcctcatct 360
 tatcagccta tccaaaactg caaatggtga aaggtctcca atcaagtctc ctgttcgggtc 420
 tcttacacaa agaggggcct caatcacat 449

<210> 53550
 <211> 393
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-037-Q1-K1-C5

 <400> 53550

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 gtcgtcgttt cgtccaggcc agggcccttc gctgcgacgt ccggtcgggt cctggcgact 120
 gtcacctgta aaggcgggca cgcctcgatg cccacgaat ccatcgaccc tgttgtaact 180
 gcagccacta ctgtcgtcag cctccataat atcatcttcc gagaaatcga tccccgcag 240
 gtcgcgggtg tgtccgtcac tcttctgaag ggaggagaag cgtacaatgt catcccagat 300
 aatgtggcct ttaacggcac catgatgcgc atgactgatg aaggtctatc ggatcttaag 360
 aacaggatca aagatgatcg tccaatgaca tgc 393

<210> 53551
 <211> 357
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-C6

<400> 53551

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gagccctcct tgcgcttctt gccctttttg tgagcgcaac aaatgcgttc attattccac 120
aatgctcact tgctcctagt gccattattc cacagttcct cccaccagtt acttcaatgg 180
gcttcgaaca cctagctgtg caagccaaca tgcaacaaca agcgcttgcg gcgagcgtct 240
tacaacaacc aattgcccac ttgcaacaac aatccttgcc acatctaaca atacaagcca 300
tcacaacgca acagcaacaa cagttcctac cagcactgag ccacctagcc atgggtga 357

<210> 53552

<211> 480

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-C7

<400> 53552

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accaggatcat tgcccaactt gaactgtgga aggagaagag ctctggcaag tatgagaaga 180
agggtgatgt gtcctccaag caccttgatg agaaggttgc tgcctccac ttggggaagc 240
ttggtgcca gctgaccaag ctcaccaagt ctcaggccga ctacatcagc gtgccgatcg 300
agggtcccta caagcctgcc cactaccggt actaggcaca cggcttgag ctcactcggg 360
ccgttggtgtg ctatgaagtt cgctacactg gcctgtcagt tatcttttgc atgcatatgc 420
attatcatat acgcagtcgc gtagcaggtt ttcttatggt tatcggttga gctgaggggg 480

<210> 53553

<211> 297

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-C8

<400> 53553

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ggagcgactg cagaaaattg acaatgataa ctaccagag actctatacc aaatgtttat 120
 tgtcaatgct ggtccgggtt tccggctact atggaacact gtgaagtcct ttcttgatcc 180
 caaaactacc gccaaagatac atgttcttgg gaacaaatac caaagtaagc tgcttgaaat 240
 aattgacgcc agtgaattgc cggaattcct tgggtggcact tgtacctgtc ctgaata 297

<210> 53554
 <211> 403
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-D1

<400> 53554

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 agtcatgccca ttgggtacca tgaacccatg catgcacgta ctgcatgatg caacaggggc 180
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 agacgatgcc agtgatgatg ccacagatga tgacgcctaa catgatgtca ccattgatga 300
 tgccgagcat gatgtacca atggtcttgc cgagcatgat gtctcaaagc atgatgccac 360
 aatgtcactg cgacgccgtc tcgcagatta tgctgcaaca gca 403

<210> 53555
 <211> 452
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-D11

<400> 53555

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 ctgcactcct ccgccccgcg tgctgccgcc gccgcgcgcg ctgccgcgcg cgctgccgag 180
 gccaccacct ccaagcccaa gccggcgctc gcgggcagcc tcaagaagta agcttgctgg 240
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 cgacccgacg tataatcaat caaacggcg ccctacggcc tggcagctgc cgagtcggc 360

ctgcggtgta ctgttagtct gctgctgatt tcccggtgta tactggtggg acatgtgtcc 420
tgtgatagat gtgtcaacta tatatcaatc tc 452

<210> 53556
<211> 383
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-037-Q1-K1-D2

<400> 53556

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aggtgttctg cctgttccag ggggtgctgg acaacctgag tcgtctgagc cagcagcact 180
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gcgaccggcg gccctaccg gtcagcttca tgctcgcca gtcaccggc tactacgcct 300
tcgtactctt cgacaagtcc accaactgcc tgctagtcgc atccgacccc gagggcangg 360
tgccgctctt ctgcgggatc acc 383

<210> 53557
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-D3

<400> 53557

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cggcttcggc agcgggtgctg ctggtgctgg tgctggcgct gcccgacta ccaaccgccc 180
cggttggaag tccggagact ggatctgcac cagatccgga tgcaacgagc acaacttcgc 240
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ctacgaaaac tacttgact gaggtgtagg atcgagcaag ttaaaaagtc tgcagcgccg 360
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tggtattgca acaaaaaaaaa aaaaaga 447

<210> 53558
<211> 460
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-D4

<400> 53558

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tgagaccgac atctacgcca agttcatcat gtggctcttc cctgacctgt tccgatgaca 180
gacaacgccg ctctgtctctg taatgtctct gtaatactgc tgcataccaa acctacaaac 240
cgatagcgca cactactgag tactgaccag gcaaggaaaa gtaagcttgc ataaaggctc 300
ccccagaatc caacaccgtc acaggcagag tagcgctgta aagatcctag aagcaacggg 360
ttttccagct tgctagatct gattctgtat aaatagttga ttctttcgtc attccattca 420
tagtgctgta gatgtgcacc tttgctggga atttataatc 460

<210> 53559
<211> 383
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-D5

<400> 53559

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cgggagcgag gcgcgcgagc gagcgagcgg agggaggagg aggatgatgc acgccaagtc 180
ggagtcggac gtgacgagcc tggcggcgtc gtcgccgccg cggtcgccga agcggggcgt 240
tgccgcggcc ggcaccggcg gcggcgggcg cggtactac gtgcagagcc cgtcgcggga 300
gtcgcacgac ggcggcgggcg gcgggtacaa gtcgtcgtcg atgcaggcca cgccggtgta 360
caacaacagc cccagcgagt cgc 383

<210> 53560
<211> 285

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-037-Q1-K1-C10

 <400> 53560

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 ggtgagattg ttattgtctg cgaccggata tattttatac ttaacctcat ttacatcaat 120
 gattcggttt acacacaact tgtctactac acttatgctn cgcacatact tgactttcta 180
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 atcttaacga tatgagctca ctgcatgata tcattcttat caaag 285

<210> 53561
 <211> 472
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-037-Q1-K1-A5

 <400> 53561

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 ccgtctcgcc ccttcggctc tggcccacct ggtgaccgcc ccaggggccc tectcgttat 180
 gaaggtgaca ggcctagggt tgggtgatagg gatggttaca gaggagggtcc acgtggcgct 240
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 ggtagcagac ctggctttgg ccgcggtggc ggcggtgctt tcggtgctgg tggatcttcc 360
 atggagtgat gtgtcaacat gagctagcat aacattcgtc tttgaactat gagaacaatg 420
 agattttgct ttggtttacc gagctgttgc cgtgggttga catggttttg tg 472

<210> 53562
 <211> 465
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-037-Q1-K1-A6

 <400> 53562

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agaggaagct gtatccaaat gtggatttct actctgggct aatttatagg gcaatgggat 180
tccctacaga attttttctt gtgctgtttg ctattcctcg catgggtggc tggctagcgc 240
attggaaaga gtcactcgat gatcctgaca ctaagattat aaggccccaa caggtataca 300
ccggcttctg gcttaggcac tatacccccg tcagagaacg agtgctatca agccagagt 360
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<210> 53563
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-A8

<400> 53563

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gtgctggatt tagaggtcaa gtaaaactca ctggcttgct gaatggggat atcgacctta 180
ctaattctct ttggacatat cagattgggt tgaaggtga gttttcaagg atctattctc 240
ctgagtatca aggatctgct gagtggagta gcatgcagaa tgatgacaca gtttcaccct 300
tcacatgggt caagactatg tttgatgctc cagaaggtaa tggccctggt accattgatac 360
ttgggagcat gggaaagggc caggcttggg tgaatgggca tctcattggg cgctattggt 420
cac 423

<210> 53564
<211> 332
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-037-Q1-K1-B1

<400> 53564

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 cttcgtctgc tggcttgccct gggccaccag caacgagtcg ctggagaatg ccttcgcctc 180
 ctacggcgag atcctcgact ccaaggatcat caccgaccgg gagacgggga ggtcccgcgg 240
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 ctgcaaggag ctcgacggtc gtaacatcac cg 332

<210> 53565
 <211> 267
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-037-Q1-K1-B10

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 gccgccgtag gaacggccgc aaccgatgct gccgaagccg accagatcgc taatctacct 180
 gaacagccgg cagctatact tttcatacac tccgactacg gcaacgcaga cccagcgtcc 240
 ggtcgggtgcc tcttctactg gttaatc 267

<210> 53566
 <211> 218
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-B11

<400> 53566
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 attggaaagg gtatcattga ctgggctcag gtgctctgac cagcttgtgc gctgtcatac 120
 catccagctg ggatacacta ctcgatctg acgctgtcaa cgtccacatg aacagtaact 180
 agtaaatgca catacttacc aaacctttca tacactga 218

<210> 53567
 <211> 410
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-037-Q1-K1-B12

<400> 53567

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gggtgaggta aacaccaagg caccgtcatg gggcgtatgc acagccgcgg gaagggtatc 120

tcttcacgcy cgctgccgta caagaagact cctccgatct ggctcaagac agctaccacc 180

gangtggagg agatgattac caaggctgcy aagaagggcc agatgccgtc gcagattggg 240

gttctgctcc gtgaccagca cggcatcccg cttgtcaaga gcgtgactgg tagcaagatc 300

ctccgcaccc tcaaggccca tgggttgccg cctgaaatcc cggaggatct ctacttnctc 360

attaagaagg ccgtggcgat taagaagcat cttgagagga acaagaagga 410

<210> 53568

<211> 465

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-037-Q1-K1-B2

<400> 53568

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gccccatcaa aggcaggaaa agtagcgctg gggcacaggt agatagcccc agcaaaggca 180

ggaagaggag tgtggaagca catgatgata gctccagcaa agggggcaag aggagccggc 240

ggtgaagcta ccatcagctc aatgccggtg aaactgtgta cagcttaacc atatataata 300

agctgttccc ttccggtttg gttacctgac aaaaaaaagt tattgtccca gtattcaaac 360

tgatgtaaca ggaaggggta gttgggtctg atgttgnttt gtaaggagta aggacaatta 420

gaagggaacc ctcaatttta tattgagaat attccgagta ggctt 465

<210> 53569

<211> 303

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-B3

<400> 53569

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aaaacaaccc ttttataact ccccttaatt taaataacat tccctttttt taacatcccc 120
taatctgaaa aatcccaggc ttttcccaac ttactcactt tgaaacacac tccattttcc 180
ccacttctct ccttttcaaa aatccccctt ttctaccttt ttaaaaatta ctatcaaccc 240
aaaatgtaaa ctgttcccccc ccttatcgcc ccctattaac cccaacggac cttccttttt 300
ccc 303

<210> 53570

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-B4

<400> 53570

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ctggagaacc cataccttca gatgcgtggg atattgcagt tatcaaataa cctaggagtt 180
caatgataag atcgtgatga catttcaatg gataaagctc taagttagaa tcattacttc 240
tggctgtgtt tattgcagag aacctgaaga tgttccgaac taagttttgc agatgctatg 300
tgaatcatgt aaattattgc tttggccaga tgcattgaca gatccatgaa tttctttatt 360
ctttggtaga ctagtcacag tccaagggag tcacagatta acaaggatat ctgatgatca 420

<210> 53571

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-B6

<400> 53571

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cctcggtccc aagggtgtag gcgagctgca gtcctcctc ttcccatgg gcgcgtcccc 180
cctgcagccg agtcctgca catggcgctc atccctggtc tcccttgccg aggggtagag 240
gcagccatgg ccggacctct gctcggccaa cagcttgggc gcctgaagtt ccctatgctc 300
ggcgccccct cctgcgcagc gccgcttgct caccctacc ccagcgcccc ctctctccca 360
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ctgctctttt cctccacaaa ac 442

<210> 53572
<211> 306
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3079-037-Q1-K1-B8
<400> 53572

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ggacatgggc accgccatgc agtacctgca aggaagggc ctgtgcctca tgccggtctc 180
cctcgctccc gccatatact ccgcgacgtg ccacatgcga cctccggtgg gaggaccggg 240
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catgaa 306

<210> 53573
<211> 422
<212> DNA
<213> Zea mays
<223> unsure at all n locations
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<400> 53573

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gcccgcgcta cggccgcgcg gatccgacgc tgcccaagcc gtggaggggg ctaatcgacg 180
gcaacacggg gtacctctac ttctggaacc cggagacaaa ggttacgcag tacgagcgtg 240

ccgtcgctgc cgtgcccgcc ccccaatcgc agccgcttgt ctactccagg cccgatgatg 300
 tgccgagaag cagcgacact gccgagcagc gctcgggaagc tgcggtgagc ccgccgcaat 360
 ttgtgccctc ctccgataac aggacaagga ttgatcactc agagtcaagc tctgcatctg 420
 ga 422

<210> 53574
 <211> 476
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-037-Q1-K1-C1
 <400> 53574

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 gtccttcaag ataaccgttt tcggtggctt actcgtgttt ctctagatcc acgtacagag 180
 aacacagatt caactgaaaa tgattctgca gcattgggtg atactgcagc ccaaacgact 240
 accatgcttc tgtatttccc atgcgggttg ataagagggtg ccttgaccaa cttaggaatt 300
 tcgtgttctg tctctgctga catgtcaaac cttccagcat gtctgtttgt ggtgcgcata 360
 aagacatgaa ctgtgaggaa tgatacaagt acagtacgaa gattcgacag tatctgcttg 420
 tggttcaagc cgggttgaac attgaagata gcagagtttg ggcattgcatt agatgt 476

<210> 53575
 <211> 409
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-037-Q1-K1-A4
 <400> 53575

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 aagaaagaat aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaata aaaaaaatg gccgcccttt ttaaagatcc caagtttatt tccccggcct 180
 ttcaattaaa aacttttttt ttggacaccc ctaatttaaa ttcattgacc gctttttaaa 240
 aacctttcac ctttaaaaac cttggctttc cccaattaaa tccctttcaa aaaaattccc 300

tttttccaag ttgccttaaa tccaaaaagc ccctcacctt taacctttcc aaaaatttcc 360
 caaccttaaa tggcaaatgg aacccccctt ttaacccttc ttaaaaccc 409

<210> 53576
 <211> 171
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-G6

<400> 53576

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 gcgggcaggt ggtggaggtg ccggcggagc tgggtggcggc gggcaaccgg acgccgtcgg 120
 ccaagacgaa agcgttgcaa ctggtggggc gcttcctggc cggcttcgaa c 171

<210> 53577
 <211> 456
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-H10

<400> 53577

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 ggcacaagct gcccctcaac agcatctgga agccatggcg cgagtggagt gacgggtgac 180
 catgctaatac tgaaagcgtg cagctggctt aaggggtgctg tgaggggtgag gaggacagaa 240
 ctgacctaca ttggctcttt agacgatgac acctgacgtg tgtatgatta ttttggtgaa 300
 ttgtggagga aattagtctc acctgttggc actggagtga atggtggaaa ccaaccatgg 360
 cccttggtctt taagatgggtt gttgttggtg tagaatacat acacatcgct gccccggttt 420
 tggtttggtt tggtttggtt taaggccctt gtgggg 456

<210> 53578
 <211> 462
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-H11

<400> 53578

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gaaagatgcc atggccctga aatccgccag ccctaattct caaaaggagc aggaaacatc 120

tttgaactct gaactacaaa gtcaggattg tcctctggaa catggtttta gtgcagattt 180

ggtgaactcc aggactgaaa agggagtcag gactacaagt tctgctagtg ctgttaaadc 240

tgattacaac accatgtttc atcctgctaa tggtagaatc aatgtccttg atcattttag 300

ccgcagcaat ttgaatgatg gttcatcaat tgtcgcagaa agtaagcaaa acaatgaaga 360

tggaagtcta aggggaagtga agaataaaaa gaagaaacga acgcaaggta ctggtagcgt 420

tgaaccaaat gatgttatag aatctccttc ctgagagata gc 462

<210> 53579

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-H12

<400> 53579

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cattgaagga tttgttggct gctagttgga atgaacttcc agattctctc gtagcggaag 120

caaagaaagc agtatctaaa ggcaccgatg ataatgctgg tcaagaggct ttgaaaaatg 180

tatttggtgc agctgaggca tgtgaagaat tcagtggaac cttgggttacc ctaagaatgg 240

ctcttgatga tctgtgtggc ctgactggcg aaaatgtggg tcccttacct gggttatattg 300

aagatgctgt taaagctgca tataatcgct acatgacata tctggagtcc tttggccctg 360

aggaaaatta tctaagaaag aaagtggaga ctgagttggg cacaaaaatg atacaaccta 420

aatgagatg caatggcat 439

<210> 53580

<211> 300

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-H4

<400> 53580

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tttctgattc ctactccttg tcgctattca atcgctaaag gatctgtccc tgggtggagaa 180
gaaccggcag attcaatgca atgttcttga ctgacgtcat ggattttgtt cttcaacctg 240
gtagctctga agacgaattg aatagctgct agtttctgct aatcatctac agtcaagtgc 300

<210> 53581
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-H5

<400> 53581

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cgatcgggag acgcagaggt cccgcggctt cggcttcgtc accttctcca cggaggaggc 180
gatgcggaac gccatcgagg gcatgaacgg caaggagctg gacggccgca acatcacctg 240
caacgaggcc cagtcccgcg gcggccgtgg aggcggcggc ggtgggtacg gtggtggccg 300
tggaggcggc ggctacggcg gtggcggcg ccgatgatggc ggtggcggct acggcggtgg 360
cggcggctac ggtggcggcg gcggtacgg tgggtggtggc ggccggctacg gcggtggcaa 420
ccgt 424

<210> 53582
<211> 262
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-H6

<400> 53582

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gtgcatggac cccaacgtga tggaggccaa ggtggtggtc agctcctgcg gccacgacgg 180
gcccttcggc gccaccggcg tcaagaggct ccaggacatc ggcgatgatca gcgccgtgcc 240

cgggatgaag gcgctcgaca tg

262

<210> 53583
<211> 335
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-H8

<400> 53583

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cgacgtggag gccgcctccc acgtgagcca ggccgaggcc gagccgccgg tcagcagcca 180
gagccaggcg ctggtggcgg accaggaggg tgaggaggtc aggctggaac tcacgctcgg 240
cttcgagcca gtcgtcaggc agcagccgag gctgtcgtgc tgcgactcga gcggcttgag 300
cgccgcgtcg agcctcatcg gcctgcggct gcagc 335

<210> 53584
<211> 458
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-A1

<400> 53584

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cagtcactga gaggatttca cctgaagcga ggaagacccc gtttctttgg tcacatggaa 240
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ctggtgttaa ctgtgagttc aaggcatatc cagatctggg tcattegttt tcccaagaag 360
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gttaactgat tccatcatgc ttaagtggca tttattta 458

<210> 53585
<211> 257
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-A12

<400> 53585

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cgtgcaaaca agctccactg tggccttctg cgctcgaccg ctgtctcagt cggacacggc  180
actgctatca cacaacagcc tctcgccagt gtcgggcaag acagtgtctg ctgtcagggt  240
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<210> 53586

<211> 146

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-G5

<400> 53586

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aaaaaaacct ctaaaaataa ttatgaacta atcataaaaa acaaaataat atataaccaa  120
aaaatacaaaa aataaagaaa atcccc                                     146

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<210> 53587

<211> 461

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-F12

<400> 53587

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gcaagaccaa tgtacagcaa cccacctgtt catggtgcac tggttgtttc tataatcctc  180
agtgatccag aattgaagag tttgtggta aaagaagtca agggatatggc tgatcgatc  240
attggaatgc ggaaggcact taaggaaaat cttgaaaagc taggttcacc tttgtcatgg  300
gatcatatca ctaatcagat tggaatgttc tgctacagtg ggatgacacc tgaacaagtt  360

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gaccgttttaa caaatgaata ccacatttac atgacccgca atgggaggat aagcatggct 420
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<210> 53588
 <211> 289
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-F2

<400> 53588

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 aacatatctg tcacgccttt actgttcgcc gcgatgctat cctgtccag aatgacggtc 180
 tcattgatgc tattaggact ggctggctca taagtcatgc tgetgacaca accactaatg 240
 ctaacaatga cacctatcat attgatagtc atgatttatt ttttctct 289

<210> 53589
 <211> 431
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-F3

<400> 53589

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 gggcagtaag tcaagcagt ctttgtatatt tgtaaataagg cattctttat gtttaataaat 180
 ctgtatagaa acaaaattgg tcattcaata atcaatagta ttatcagaat tacatttctg 240
 tactacaaca attattttat caaacaagtt aaaaaactat cttgggaatt ttatccaacc 300
 tatttttttc taagtcatgt ttaggaaggt aggtttgtaa tttttactat tacaagcagt 360
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<210> 53590
 <211> 377
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-F4

<400> 53590

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caaggcacag ggatattctg ttggaaaatc tctcgtggaa gaggataaac tcgagctcgc 300
aacttctctt attgagaagg cgaaggccaa gggggtttct cttttgcttc ccactgatat 360
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<210> 53591

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-F6

<400> 53591

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agaaaggctg agatcctacc aaaactcata atggctctga gaaagatgca tcaacagaac 180
cactcggtag atgctcctta cttattacac caactgaaga tagaactgat ggtattactg 240
agcctgatga ccttgcatag aataatgtga atgcacccca agaataccaa gctgcatctg 300
aaattatacg tgataaagggt gcataggggt atgatgtgtg ttgcacacga attactaagg 360
atactactgg ccata 375

<210> 53592

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-F7

<400> 53592

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gcattattta acaaatgatg atgccacaat gtcactgcga cgcctattcg catataatgc 180
tgtatcaaca gtaaccattc atgaacaacc caatggccat gacgaattca cctatgttct 240
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tgatttgaca tgccatcttt attaactcat gattattaac tattactatt a 351

<210> 53593
<211> 288
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-F8

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gcttcacga gccggccttc aaggagctgg cctcccgtt caccgatgcc atcttcgtca 180
aggttgacgt cgacgagctc gcgagggtcg caaggacatg gaaggtagag gcgatgccaa 240
cgttcgtgct ggtcaaggat gggaaagaag taagccctgt gattgggg 288

<210> 53594
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-G1

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ttgcgtctgt cgtagcataa cactagaaga gcagctcaca ataagtgtcg tgaaggttgt 180
ggatgttgca aaggaatgtg gcaaccgggt gccgcctgga aataaatgtg gaacttggac 240
tgttccacca caactgctgg gatgggtgca tccgtaaggg ttcaacaaag cgagcaacia 300
agggcgcatg gataggagtt caacaatgaa agcaatcata ggaaaatctt gagataaatg 360

aatgaatgta tgctctactg gcttttggaa tattagatca aaattatatg agatgtgaat 420
tattt 425

<210> 53595
<211> 454
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 53595

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gttcaggaac aagcacaagg gaccttgaaa attcacttca gaaggcacia gaaaacttta 180
ttaagagcca gattgagatg ttacagatcc aactgcaa at ggtgcagcgt ggcgctgctg 240
ggcgcgccag taacgagaat actgatcaca cataagaatg actgaatctg tgaacagaca 300
cttctgcctc gtggtgta at aataaggaga atactgatga gcacacagct gaatctgtaa 360
ataggcggcg atgaggatgg gacaaaagat agccaaggat tggcgatacc tgtggctggg 420
ggaaactgtt acatgatgtc tngcctggat tttg 454

<210> 53596
<211> 456
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-G11

<400> 53596

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ctgtcctcca agcgtgatga tgaaccagat aacaatacag aacattctga acaaatgaa 180
ttggcatcaa cttctggcac aagtgatgct gctgatggca caaaggaa at cgtacaagag 240
aactggcttg tgttactttt caggagactt gagaagcaag gcatcacttt acccgagagg 300
tttactgaag atgaattacg cagattttat gttgctgcaa atggtgactt ttcaagttaa 360
ctctcttcgg ttaagaagac aattcgttgg agggaaacgt ttcacatact tacactgcaa 420

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456

<210> 53597

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-G12

<400> 53597

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tctctggaag atctttacaa tggcacctca aagaagctct ctctttcgcg caatgtcatc 120

tgctccaagt gcaagggcaa gggctcgaag tctggtgcct caatgagggtg ccctgcttgc 180

cagggctcag gcatgaaagt cactattcgt cagctgggcc cttccatgat acagcagatg 240

cagcatcctt gcaatgagtg caaggggact ggagagagca tcaatgagaa tgaccgctgt 300

ccagggtgca aggggtgagaa ggtcattcaa gagaagaagg ttcttgaggt tcatgttgag 360

aaggggatgc atcacaacca gacgatcacc ttccctgggtg aagctgatga aacgcctgat 420

actgtcactg gaaacattgt att 443

<210> 53598

<211> 58

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-G2

<400> 53598

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<210> 53599

<211> 421

<212> DNA

<213> Zea mays

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<400> 53599

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ccggcttcac taggggggaa gcttccatca aagcctacgt ctcatccaac ctgtccctcg 120

gtgataggca actcgctgcg caatttcagg aaatccctct ggatcctagg atgatcgggg 180
cagaaaaggc tggatttgag atcctgaaat ctacgatggg agagaagctc cccaatgatc 240
tggaaggaat ggagtcctca atggagaagc ttacattctc tattgatgag atctacaaat 300
acgtcgatga tgttgtggaa ggacgcgtgg cacctgataa cagaatcgga aggttggctc 360
ctgaatcttg tgcttcaatg ccgaaattgt cccagctgc ttctgataag cttttcaatg 420
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<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-G4

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ttctgtacgt atatggggat tcagaatgag aaagagtgtg gcaaattaat ataattaggt 180
gctgcagttt ttctctatgc aatgctatta tgaacttcct ttgtatttta gcacaatcct 240
gaacttcact ggtagcattt aacattatta tttaatctaa aacagagcaa caaggtgctc 300
tgtatttaag agtgggtattt gtagtgagtg aaatgatgat ttggaaatta tcatattagt 360
atatcatatt tatgtgtgga tgataacaag tactatgttg caacttgtga gacaattttt 420
tagtgtaagg at 432

<210> 53601
<211> 453
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-D3

<400> 53601
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ttttagaaaa attgaggcac ttcgagggtg agattattag ttatcacctt gcttgtcttg 180

tatccagctt taagtgcctc agaacatgaa gcttacccaa aggtcttcat aatgattagg 240
aagtcagtca aggctggatg tttgttcgaa tattggatag ggattcagag aggtttactc 300
ccttcaagtt agaaaaacaa agaatggtat gtttttgtgg tatttttggg tcagtctagg 360
ataaagtatt tatgatcctt ctttaattgt ttcagttagc agattgtaac attgagaaca 420
ctattacttg tttttctacc ttctgaaaat act 453

<210> 53602
<211> 370
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-D4

<400> 53602

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gcggagaagc ggctcccggc gggaaaatcc gccggcaagg aaggcgggtg tgacaagaag 180
gggcggaaga aggccaagaa gagcgtggag acgtacaaga tctacatctt caaggtgctg 240
aagcaggtgc acccggacat cggcatctcc tccaaggcca tgtccatcat gaactccttc 300
atcaacgaca tcttcgagaa gctcgccggc gaagcggcca aagctcgccg ctacaacaag 360
aagcccacca 370

<210> 53603
<211> 302
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-D9

<400> 53603

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gaagtccttt tctagtttct acattgaaat tatcatatta atcagctgga gcatttgggt 120
ctcaaggagt gagctggaac atcttccaag aaattctacc gtctgtatca aatggctaag 180
cctttttcaa gaaagagttt gccaggtta tccatagagc atagaagaaa tatttccttg 240
aagaatgact agagcgtcag ttgtggctct ttttaatatc ttttgtgtcc ttttttgtt 300

<210> 53604
 <211> 372
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-E10

<400> 53604

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 tcttcactct ccacgcctcc gccatacatg cgcagatacc tgcctcggca actaccgacg 180
 ccgccgtggc cgtcacaaac ccgcattccag gaagcactgg cactgtctgc tgtatattgg 240
 gcgccagcgg tccggactct cgtctggaac tctacatgca cgacatcctg tgccggtcga 300
 gcctgacagc tcattccatc accggtttgc tgggcatcat ctaccacggg catgtccatt 360
 tcgcgcggcc ca 372

<210> 53605
 <211> 419
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-E11

<400> 53605

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 gagggggtgt tcacaaatcg acggatccta gagctagctt aagagctggc tatgcctctt 120
 gctgcatgtg aagtactccc gctagacctt catatttact ggcgcacaca cagtccatga 180
 tctagctatc tccgacaatt tgctggactc aaccgatact gtgtgcacct gaaatctggt 240
 gtacaagatt atgtgataga ggatgcatca tgaccaagac agacatgtga catatactac 300
 accgctaact acacagagca actaatggtc aaaactcata tgcgcatcac tggactggac 360
 acagaataaa gctcagagtc attgttcaat actaatgctg atggcagcac agcatgtgc 419

<210> 53606
 <211> 433

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-036-Q1-K1-E2

 <400> 53606

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 tgaacggaag gaggttaagc agatgttaat tgctcttcta ggagaatcag aaatgaggct 120
 atctgatgat atcattgaga caatcctgga taagacattc tctgatgctg atgcaaata 180
 ggatgggaaa atagatagaa cagagtggga gaattttgtc acaagaaatc cttccttgat 240
 gaagataatg actctgccat acctcaagga catcacaaca acattcccca gctttgtggt 300
 taactctgaa gtcgatgatc tcgtcacgtg accacgattt tctcttcgat gtatagctaa 360
 caaggagaac ctgtcgaggg ttacgactgg agatttctag cctctggcat tatgaatgcg 420
 aggtatattc atg 433

<210> 53607
 <211> 414
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-036-Q1-K1-E3

 <400> 53607

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 aggtcggaat cctgcgggag gaactggctg gaccgctggg tggaggagag gtacatggac 180
 gacgagaaga acgccaagat tctcgaggtg gacaacggca agccacggcg ccggtatgct 240
 tccaagaggc gcggcggcgg cggcggaaac caccaccacc accaccagtc gccgtgctcg 300
 acgacgatgg gttccgagca gaacagccgg agctacgca ccatggcgga gtcgccgtcc 360
 aaggactcga cgaccgcga gcagtcggtg ccgagcccgg cgtctgtggg catg 414

<210> 53608
 <211> 383
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-036-Q1-K1-E4

<400> 53608

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tcagcttata tatattcctc tgcccgatga gcagtccagg cttcagatct tcaaagcctg 180
tctcaggaag tctcctgtgg ccaaggatgt tgacttgaat gctctcgcca aatacaccca 240
gggttttcagc ggtgcagata tcacagagat ctgccagcgc gcgtgcaagt atgccatcag 300
ggagaacatc gagaaggata tcgagagggg gagggcgcagc aaagacaacc ccgaagctat 360
ggaagaagac gaagtagacg aca 383

<210> 53609

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-E5

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agcggtatga tgaactgaaa gagcgctatg gggtttctga tattactgtt tcagtacaaa 180
atgtggcttc tcagcggggg tacagtagca ttgacttggg gacgcttgag gacatgggcc 240
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ggaagccatt ctaaacaaga tacacataca caatagttct gctccggcat acctattttc 360
tggccagtta ccagaccttc gatgcttcgc tgttcaagaa accgattgca gttgcctacg 420
gctcaaagca caagcgcgtg aaatcta 447

<210> 53610

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-E6

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ggataatcta ggacatggac gccatggagg tggagaagct gatcttgtag atgctcaaga 120
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 gcgcgggtccc ggacacgcgg cgcttacagc gtcgtctgcc gtgctgctca cagctcaatc 300
 cccatgggtca tgcgcctcaa ggaggacagg gcaaacggca tgcgtcaagc gcagtaagga 360
 ggtcattggc caccggggaca ccgagctcat 390

<210> 53611

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-E8

<400> 53611

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 ttaaaaagga cgtgttccgc tatggatggg actatggtga aacattgtgt cagtttttgt 360
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<210> 53612

<211> 460

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-036-Q1-K1-E9

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 actatatgct ggtcctgaag ttgacgtctg gagctgtgga gttattcttt atgctcttct 180

ttgtggcact ctcccatttg acgatgagaa tattccaaac cttttcaaga aaataaaggg 240
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 gctggttggt gatccaatga aaaggattac aatacgtgaa atccgtgaac atgtgtggtt 360
 caagatccga cttccgcgct atttggctgt gccgtcttca gacactgctc aacatgttaa 420
 aaagggtcgac gaggaaactc ttaatgatnn gtataagatg 460

<210> 53613
 <211> 288
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-F1

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 gccgagcatg atttctcata tgatgatgcc acaattgtca ctgctacttc ttctttcaga 180
 ttattcttca acagcagtta ctattcattt tcaacccaat tgccatgatt atttcacca 240
 tgtttttaca gaaacccttt gtttgtgctt cattcttgat ataaatat 288

<210> 53614
 <211> 383
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-D12

<400> 53614
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 ctgctgctcc cattagaaat ataatatcgt atgttatggt gatgcatata tatgcatcat 240
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<210> 53615
 <211> 442
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
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 <400> 53615

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ggtggcgact ctgtcgctgc tgtcgagaag gctgggctgg ccgacaagat gagccacatt  180
tcgaccggcg gcggtgcgag cttggaactc ttggaaggca agactctacc tgggtgtcctt  240
gccctcgatg acgcctagat ccgctgctgc tgctgtact caggttctgc cagctttgcg  300
tgtcatcttg tttcggacct tgggtgtagca ctgcaaggct aagggttact cctncacaca  360
tggactttcg aggataggct tgccaccgtg ttttgctaga tgagtcgtga aataagcttt  420
tacttcctcg ctgctgtggg tg                                     442
  
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<210> 53616
 <211> 445
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-036-Q1-K1-B6

 <400> 53616

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attgccgacc accgccgcac cttgaagacc gccgtgctgt tcgtcgtggg gggccgtctc  180
aggcaacgac gagtacgccg gtcgcggcct caaagacctc ccgccaccgc tatgacttga  240
agccctcctc catgccaatc aagattcatg gtgaacgaca tccataacag agacgggttt  300
gtcctcgaa cctcaagagg agggcatgac actacgaaaa tcattgattg tcttcaggac  360
cgtgatacta accagattta tattattgaa gatacgatgt gtaacgcaaa attcctgaaa  420
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<210> 53617
 <211> 296
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-036-Q1-K1-B8

 <400> 53617

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 cccctcgtat aaattgccga ccaccgtctc accttaaaga ccgccttgct gttcgtcaaa 180
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<210> 53618
 <211> 428
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-036-Q1-K1-C12

 <400> 53618

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 ccgacggcac gtcgacgctt ctgcgggggtt ggccgggagtt catgcggagc ggcgcgccgg 180
 cgaggttcct ctgttatgag gacggcaagt ggatcggtat caccggagag gcggtgccgc 240
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 cgtacctgtt cgacttcctc cgcgatgatca ggatcgacga ggtcaccggc gaggagaccg 360
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 ggaagcgc 428

<210> 53619
 <211> 365
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-036-Q1-K1-C2

<400> 53619

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ttgtgtcctg ccccccttgg ataatgtttg ggtgtttcct tccatcataa ttgcttgaca 240
cggctatagt attcgcatth gaaataaaaa tctctctctt aaaactctct aggttctaaa 300
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<210> 53620

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-C4

<400> 53620

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cacaacatga ttatggaggc cattgagtac aaagttgtct tgaagagata tgctgaggaa 240
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cttggggggca tttgaggaag ctacaaaagt attctcaaca catagaagtc caacatctca 360
tttgtttttg cataatgtgt tatgtattgg atccatcaag ctctaagaaa ttaaaattgg 420
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<210> 53621

<211> 454

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-C9

<400> 53621

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atgtctaaca atatgcattg ccatactcat ttccctcatag attcttctgg attatttttt 180
gacaatagat aatcattttg atgaaagtcc gtagctattc tgtaatctaa ttcagaaccg 240
atcaataatt cattttttca aagataaaaa caattacata acatatgggc aaagattgtc 300
ataatatgtt caaacatgaa ccatgcaata tatacatcca tactttacaa ctgtagtatt 360
agtagaatgc acagacataa atattatagt agtaaaacac attcttagca agttattgcc 420
attatattaa catcattcac agttacacac cact 454

<210> 53622
<211> 511
<212> DNA
<213> Zea mays
<223> unsure at all n locations
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tcctccgttc tccttcttgn agtcagcca tagcctaggg atcggccagt gtgcggactc 120
ggagggagcc caccatttcg taatcgaagg gcctgacgcc ggagccgtcc aagaacctac 180
ctcgagcat gggctgtgca cgtctcgtat atgaaccggg gcttcatcgt cattcaatga 240
actcgctccc tgcaaggggt tgtggagggt ttctactctc aaagacctgg taagcattgg 300
ccatgccaaa tgccactttt gttggccata gacatanttc aactgggaaa aaagctcgaa 360
gatattggtt ccttcgtcac actaactgtg atattnccgc atgtgaactc gtactgagta 420
ccagctgatt gatatatcag aggatggatt tgtgagcctt cttacttcag atggcaacac 480
taaggatgat cttagacttc caactgatga g 511

<210> 53623
<211> 453
<212> DNA
<213> Zea mays
<223> unsure at all n locations
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<400> 53623

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 gctactggat ttgcagtcaa tgctactggg atggccaacc aactacaact aggaaatagg 120
 ttgccctggg caaactattc aactaaacta atcgcgactc accactagtc ggctagtgtg 180
 tgctcagggtg actagacttg atttatgatt tggaaacact agtagctgct tatcttttat 240
 ttacgctagt tatectcaaa agaccaccaa atgttattat acacattcgt agcaatcgta 300
 taaggttata ttatgctaca gtgaacgatg tgccaaaaaa tggataagcg tgttcattta 360
 aattctaaga gagccatttt atgtccttgc tggatacaac aacattttga tttactgtct 420
 ngcatncgaa ggggtgcattc caagcctata tct 453

<210> 53624
 <211> 433
 <212> DNA
 <213> Zea mays '

<223> Clone ID: LIB3079-036-Q1-K1-B3

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 aatcgagaat ctaatgggtg taataatgat ctacggatcc tgttcacgtc tggctcctct 180
 tgctgctttt ggatatgtta tggccacaca cctctctctt tatectgcaa ttctcatagt 240
 accggtcatt ctgttgctgg gttatggtct agatgctcct cctccaaaag tatttggtat 300
 aaaagggtca attgccagaa aaagtgatgt gtcagacaat gataaaacaa gcagacagag 360
 agttgttcag cagttttcat ggaaaccagt acttcacttt atattttggc tgctcaatct 420
 gtcgtgccat gtg 433

<210> 53625
 <211> 451
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-H3

<400> 53625
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cgagatgggc cgcaagttct tcgttggtgg caactggaaa tgcaatggaa ccacagatca 120
 ggttgagaag attgtcaaaa ccctgaatga aggaaatggt ccctcttcag atgttggtga 180
 ggtcgttgtc agtcctcctt atgtgttcct cccggtgggc aagagccagc tgcgccaaga 240
 gttccaagtt gctgctcaga actgctgggt gaagaaggga ggtgcattca ccggtgaaat 300
 tagtgctgag atgctcgtca accttggcgt tccctgtgtc attcttggac actctgaaag 360
 gagagctctg ctgggagaat caaatgagtt tgttggatac atggttgctt ttgctctgtc 420
 ttatggacta aaagtcattg catgtgttgg t 451

<210> 53626
 <211> 240
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-H6

<400> 53626

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 tcccacctga ccagcaacgt ctcatctttg ccggcaagca gttggaggat gggaggaccc 180
 ttgctgcata ccaccctaa gacgcagtac caagtggatg gtgctctcct tctagatgtt 240

<210> 53627
 <211> 244
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-H8

<400> 53627

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 aacctttgga cttttagtaa actacacagt aactttcacc tattgagttc tgacgttggg 120
 tacacatgct caacaaatct gcaagaatca caggccttga tcccgaacta ctttacgcgc 180
 cagagaaaga aaaagaaaga aaaaaaaaaag ggttcctagt agtgttaccc tatgacgagg 240
 agct 244

<210> 53628

<211> 247
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-036-Q1-K1-A1

 <400> 53628

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 gggaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa ataaaaaaaa ttaaaaacac aaaaaaaaaa aaaaaaaaaa ataataaaaa 180
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa tatacactaa cataaaatta 240
 taataat 247

<210> 53629
 <211> 439
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-036-Q1-K1-A10

 <400> 53629

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 gcagtacatc ctccgggctg gcgccatcaa ggccctcggc tccttcagga gcaacgcgtg 120
 atgagcgggg cttggctgtg gagcaatggc gggcgaccta cgggcggggg gccgtgagcg 180
 aggagaatgc catcattcat cgatcgactt ggggtgccgtt ggttggttcg ggtcgccttt 240
 tttttgttcc agcagctgct gcgttgcgcg cgtgcgtgag atttggtttg gtttcgttcc 300
 cctgcaatgt aatcatgtcg tgactctcaa gggattattc cgctctgctc ttatgggtctc 360
 tgttttctat ttaatgattg ttattaccat gtagcagtaa ccatcgtcac cagtgagaac 420
 cttgttgctt ctgtctaaa 439

<210> 53630
 <211> 453
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-036-Q1-K1-A11

 <400> 53630

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 ttgttagtgt ccactgtgaa caaacatcga ccatccattt gcacagaaca gtcaatcagg 120
 taatatctgt accaccttat atttacaagt taatgctcag ataatagtat ggaacttcaa 180
 tgtatttggga tataaatacc aacgaatgtg gctttttacct tcttgcttgg tgttgtacaa 240
 cacaaatggc ttcaacgaat attttgetta aacccttcac tgtatttttt tcattcagga 300
 tttagcta at catggactat tacgtaatga atgtttttct ttgtgtgtgt gtgtgtgttt 360
 gtttgttttg tgaggctgaa ttattactaa ttactgggct ccaacaatag ctataggagc 420
 acatttgcta cttgctagtg ttaggcctac aac 453

<210> 53631

<211> 460

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-A12

<400> 53631

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 gagatatttg cctccttcaa aggttcttga tgctgatgtg acagacagtg ttattggaga 120
 aggggtgtgtt attaaacatt gcacaatcaa tcattccgta gttggactcc gttcctgcat 180
 ttctgaaggt gcagttatag aggactcttt gctaattgggt gcagactatt acgagactga 240
 gaatgataag aatgtccttt ctgagactgg tggcattccc attgggtattg ggaaaaattc 300
 acatatcaga aaagcaatca ttgacaaaaa tgctcgcat ggagaaaatg tgaagataat 360
 caattttgat aatgtccaag aagcagtaag ggagacagaa ggatatttta tcaaaagtgg 420
 aattgtcacg gtgattaaag atgctttaat tcctagtgga 460

<210> 53632

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-A2

<400> 53632

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cgctgaatc ctctccaact cgggcaccgc attcgcacgc ccgcgaagcc ccgaatcgga 120
gaggacagag gaggcatgga cggggcggcg ggggcggctg cggctgcgag cccacgagc 180
aagaggatcg cgctggtagc gggaggggaa aagggcatcg ggctcgagac gtgccggcag 240
ctggcggtcca ggggcgtcag ggctgctctg acggcgagga acgaggcgag gggtttggaa 300
gcggtcgagc gcgtcaggtag cggccggggc gacggcgagg tttacttcca ccagctcgac 360
gtcaccgacc ctttgcagcg ccggcggctc ggggatttcg tcagggatca attcggtagg 420
ctggacatcc tgatcaacaa tg 442

<210> 53633

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-A5

<400> 53633

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aaagagctgt ttagcatct gttgcacgtg ccaatcgtgg aaaaattgat gcagctttgg 120
aagatctttc tgtcgaatca gcagtggatc tgcagaaagt tcttaaaaca agtacattta 180
cttcaaggaa ggatgcattc aacacccttt tggctaacat tcctttgttt caaagtcgac 240
tgaggagccat gctatttctt atttctgctt tgctttcacg aggattggaa gacatccaag 300
cagacagggg tgatccaagc cagccattgg tcaactgctcc atttggatcat gcttcacagg 360
aaattgtgaa tttattactc tgtggagagg ctgttccaaa tgtatttgat ggcaagatgg 420
accttgggtgg tggcatg 437

<210> 53634

<211> 300

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-A9

<400> 53634

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gatcgtgtgt ggtgactgtg gtcgccgtat acctgacgta aaaaaacagc agtccacatt 120

cggggggtcg tcgacacttg caccacgcac tcatcgctgc acccttgaga acacgagaca 180
catctaattg tcatcgctgc ttgacagagt agtacaatag ttaccatcgt gtcttgtcgg 240
ttaatgtgat atgatccaat tttgggttgg gtgatctaata ggtcatgggt ttttttttgt 300

<210> 53635

<211> 460

<212> DNA

<213> Zea mays

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<400> 53635

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gtcgacacca tggccgctgc gcgccggggc cgtggcgact gcgccaacgg cgtcgtccgt 120
ccccgcccc gcgaccgagg catcggcggc gggagcatgg cggggcgagt ggccgtcctc 180
gccttctgtg tcgcagggat ctggtccgcc tacatctacc agggcgctct ccaggagact 240
ctatcgacga agcgggttcgg gccggatgag cggcgggttc agcacctcgc gttcctcaac 300
ttcgcgaga acgtcatctg cttcgtctgg tcttcataa tgattaagct gtggtcgggc 360
gggagtagct ccaatggcag cgcaccgata tggaagtact ggggcgtcag cgtcaccaat 420
accatcgggc cgaccatggg gatcgaggct ctcaagtaca 460

<210> 53636

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-B2

<400> 53636

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cattaggaga acttgtgaaa ggtaataaaa acaagtccac cactgagtta tgggtagaga 120
aattctataa gaaggtaacc aatctaccgg agccttttcc ccatgatctt gttgagaagt 180
tagaagaata cctggataaa cttgaagggc aactcgtgga cttgtcttcc ttattgtatg 240
accaccggct ggtcgatgca tatcaaaaca gtaccgatat cctgcaaagc actattttta 300
cacaacagta tgtggaacgt gttctagcta acgagagaga caagatgaaa tgctgtagca 360

ttgaatatag tcatccaaag cagtcatccc aggcttttgt ctatggaagg atccttctgg 420
ctggatttct tgtgtattca ctggttattt 450

<210> 53637
<211> 240
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-H2

<400> 53637

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aggtggagtc ctgagacacc attgacaatg tcaaggcaaa gatccaggac aaggagggca 120
tcccacctga ccagcaacgt ctcatctttg cgggcaagca gttggaggat gggaggaccc 180
ttgctgcata ccaccctaa gacgcagtag caagtggatg gtgctctcct tctagatgtt 240

<210> 53638
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-G1

<400> 53638

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gatgtgcaaa agctcacata ttctcttcta ttgatacaca tgttggatat ttgctatcta 120
ggtactcagt gcccacgta tttgacgtat gtctgtaaat aagtggcaca ttcgagcgct 180
cttcgctctg ccattgaggt ggatcgaagc tgccacatat tttctccgca ggacatcggc 240
acgaattttg tcttagcaaa ccagttaatt ttgtactctt tagattcttt aattggttcc 300
atgctctctt tgggtacttt catgtcagtt tgctttgcaa acattatcag cgtgcccttg 360
tagatttcgt aatgggtata tgtatatgcc ctattgaaat tgtcaaaaat aaaaa 415

<210> 53639
<211> 462
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-035-Q1-K1-G10

<400> 53639

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atcttcacag atcaacaagt gagcgggtctt tgcattgctgc atgagatcaa gcaagccgcc 120
gactggcaat gctccacctg ccatttcagtt cgttgggtgag gtattaatca ccagccatgt 180
tggcacttgg cggcatgcag atggagcaga acatccaggt gaagcggaca gatacatgat 240
cgatcatgag ttggcgcaga cacaggccat acaaccagag gctatatcc aattcataca 300
ttccatgata agcaaaggaa gatccatgac aacacatata taaaatagt tagttataca 360
agcaaaaatc ctgttgtttt gtgcctccca ttttctagtc cagaattaat atgacaattn 420
ttcactgaaa ctggttggat cagagaccag gaaaaaaagg ga 462

<210> 53640

<211> 437

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-035-Q1-K1-G3

<400> 53640

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cccgacccga tggcgcccaa ggccgagaag aagccagcgg agaagaagcc ggcggccgag 120
gagaaggcgg agaagacgac cgcaggttaag aagcccaagt ccgagaagcg cctgccggcc 180
tcgaagtcct ccggcaagga gggcggcgag aagaagggga agaagaaggc caagaagagc 240
gtggagacct aaaaaatcta catcttcaag gtcctgaagc aggtgcaccc cgacatcggc 300
atctcctcca aggccatgtc catcatgaac tccttcatca acgacatatt cgagaagctc 360
gccggcgagg ccgccaagct cgcgcggtac aacaagaagc ccaccatcac cttccgcgag 420
atccagacct ncgtgcg 437

<210> 53641

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-G4

<400> 53641

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gcccgtcccg tggcgcaacg accgccgcct tccggccacc cggtcgcggc tcccccgat 120
tcgcgcccac cgcgcctccg gatcgtctcg gagatctgcc gctgaggag ttgcatataa 180
tctgagctgg tgctcctcaa gtgttcggaa gaggtccctg ttttattcgt ttttgttggt 240
gcgattgcga gtgtaatgga ggaagtggag gaagcgaaca ggaagccgt ggagagctgc 300
cacaggggtgc tcgccttgct ctcccagccg catgaccccg cgcaggccag gagcatagct 360
ctgggcacgg acgaagcatg tgccaggttc aggaaggtgg tctctctact 410

<210> 53642

<211> 461

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-G5

<400> 53642

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gcattgcgaa gcgttagccg gagcccagct aggatttcaa ggagcccact taggccttct 120
aggagaagcc ctatgagaag tccacgacgg aacattcaca gaagtctcag caggagccct 180
gcaagaatac ttagaagtgt gagcagaagt ccagtaagag gtggtcgacc tcgccggaac 240
attagcagaa gtcccagtc acttcgcagg gcattaacac caccaaaca tggaaggagc 300
cgatctagga gtgattctcc tgatgggtca cccaaacgca taagacgtgg acgtggtttt 360
actcaacgct attcatttgc aagacaatat cgctcacctt ccgctgatcg cttgcatcgc 420
tatggcgga gaaatgaccg tgacagatac atgggttacc g 461

<210> 53643

<211> 460

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-035-Q1-K1-G6

<400> 53643

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ggtggtgggg ctcaagtcttt tcctacagct ggcctcaag gcccttcctc agtagcattt 240
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ccttcagctt tctctccagt tggatcaact cctggcatgg tgctccacc tattgcatct 360
tccggcctgc ctgccccgcg tactgcgaa actagctgca tccagacaca agtagtagcc 420
cctttgagac ctncgntccc agccgcgggc gaatttactt 460

<210> 53644
<211> 386
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-G7

<400> 53644

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tgtacaacta ctacaagcac cagggtcgag gaatgttga ggccgttagc ttcaggcaga 120
cggacatgca cccgaccgac tgagaagaca aagaggaccg ccgcaacgtc tggctttccg 180
gcacatgcgc tggttcagcaa cccggaagat ctacgaccgc ctcgaggaag acgccttacg 240
caccgtccta gaccaattcg acgaccatag ttacggcggt gagctgtact taccgatgac 300
catggcatgc tcaacaacca gtgcgactag gactaagact gttgccaatc tgaactgtcg 360
cagggtcaat ctaagctagt atgcac 386

<210> 53645
<211> 458
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-G9

<400> 53645

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gctagcaggc acggaagaag ttcgactccg cttgatcctg cgggggaaga cgctcccgca 120
ccaagacgac agccatgtca ctctccgcga tggggatact cttatagtcg ccgtggcacc 180

taagcctcct gttaatcatc ttcttgatga tgacgttgag gacgaagaag aggatgaact 240
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agacaaattg agattgcctg atatcatttt gatggcgctg ttttctctca gtatgaaagc 360
atggattatc attgcaatgt ggttcctatt ggcaccgatt gctcagaagt acgacattgg 420
acctttatat ataattggta ctggtttctt gatcatac 458

<210> 53646
<211> 242
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-H1

<400> 53646
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gtcttgcttt cagcagcgtc caatgtctta ctttttgctt cgggcccttt aaatatattt 180
tagtggccgg tgttttaaac tgctgggcct gggtaaaccc gggctttacc cagcttaacc 240
gt 242

<210> 53647
<211> 450
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-F8

<400> 53647
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ccttagctgt tgcagctatg tgtttgcagg agcaagcagc atcccggccg ctgataggag 180
acgttgtcac tgcactgtct tacctagctg cacatcctta tgatccaaat gcgccttcca 240
caaaggattc taagacctgc ccgtctaccc caagggcaaa gacacaccga cgaaccacca 300
gtgttcctga tgctcaacat gctgctgagt cgcttatttt gaacttccca gacatgagga 360
aggagactgt cagaggaggg gaattcgaga aggatcgtac tgaagggtct ggcagcagca 420

gtagctctgg aaggaacgat tgcctggatg

450

<210> 53648

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-E12

<400> 53648

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tactacttac atttacaacc tattaatcaa caatcattta ctcaaccaat tcatacacia 120
catccctacc aaaatcagtc ctattgcctt acaaactaga tctacctact attattccta 180
taccactgac ccaactactg ccaaattaac ctcttactct atctacaatc acttaactaa 240
cattactacc taaagcacca ataccttaca atatattcaa taacgacaaa ataatccctt 300
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tggtgccatc 370

<210> 53649

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-E2

<400> 53649

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cagagaagtg cagcaatgca cacttctttc aatcaagact ggtggatgca gtgaagattg 180
ttcttactgt cctcagtcac caagatacaa cactggattg aaggcccaaa aattgatgaa 240
caaatatgct gtcttgggaag cagcaaaaaa ggcaaaagag tctgggagca cccgtttttg 300
catgggagct gcatggagag aaaccattgg caggaaatca aacttcaacc agattcttga 360
atatgtcaag gaaataaggt gtatgggcat ggaagtctgt tgcacactac gcatgatgga 420
gaacaacaag ctgat 435

<210> 53650
 <211> 453
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-E3

<400> 53650

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 tggatcatgaa ggtcgccggt cttcttacta tggatcggtct cgttctcgct ctctctgcta 120
 tcggggccgt cctcggtcga gatcatactc tcttgctcca aggcggggga atgactactc 180
 tgctctcca aggagacagg aagcccatcg ctcatctcct cccaggcgcc tgccaaagga 240
 gcatgatgaa gataagaagc ggaggtccta ctctcctgcc agtagagatg atgctgacaa 300
 tgtttatgag aagaggtcgc cccagcaga cagcgatgga tctcctctgc accgcaggtc 360
 cccaaggag tactcgggct caccttctgg atcccgctcc aggtccgccg acgattcctc 420
 tgttgccagt gactgatcga ccgatggatg cta 453

<210> 53651
 <211> 457
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-E4

<400> 53651

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 taacaagggt atagcaccca aaattccatg ggacagacac aaatcagaat gtgactcagt 120
 gtcagacgca agccaaaggc cagaggatca ggatgagtgt ggcatagttg acgcattggc 180
 ggagcaata acacgtgtta gaatatcaga gccaaagaga agtcgggtct gtagccccgc 240
 aattaccatt cagcaggaat gctcgtcaaa cttgaagaat aatctttgca cggctttctg 300
 acctgaccta gtttatagca cctgatcgga atggcgctca ttcttctcgc tgagaaggtc 360
 gttctgattt aggtgttgta gaggcgagga taataactca gcttttccag ccagcaacaa 420
 acgtctggta tttagtgttt ctttcagtgt tctgat 457

<210> 53652
 <211> 189

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-035-Q1-K1-E5

 <400> 53652

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 tcgcaactcat tctcactctt cttgctatca tcgcctccct cgctctacat catactctcc 120
 tgctccaatg ctttctaattg tctacacttc ctctctaacg tgacacgact cccattgctc 180
 atctccttc 189

<210> 53653
 <211> 330
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-035-Q1-K1-E7

 <400> 53653

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 gggatcatgaa cgctcgccagc cttgttacta tggctggacg cgctctcgct ctccctcgcta 120
 tcgcggccgt cctccgtcga catcactctc tgctgctcca aggcgggtgga ctgactactc 180
 tgctcttca aggagacagg aagccgatcg ctcatctact gccaggcgcc tgccaaagga 240
 gcatgatgaa gataagaagc ggaagtccta ctcttctgcc agtggagatg atgctgacac 300
 tgtgtacgag atgaggtcta ccccagcaga 330

<210> 53654
 <211> 422
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-035-Q1-K1-E8

 <400> 53654

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 tcatgaagct ggagtgtcaa atcagtatca agctgcttta acccagaatg tactgccagc 120
 aatcgctcag atttcacagc tagttgctgg gagccatcgt ccagttggca tcccaaatca 180
 ggcccttgct gttccgctc aatatggtag tggtagtgc aattattatg gagtgacgct 240

caccaggcca tacaggccca tcaactctacc tgctggacct ggtgctttga atggccaag 300
 tgcgcaggca tcttcaagat caaggtcteta ttctggagat ccccttgagg ctgtctcccg 360
 atcatcagat tagaagggat cgtcttataa gtattctttg accaatatgt caacttatga 420
 tc 422

<210> 53655
 <211> 456
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-035-Q1-K1-F1
 <400> 53655

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 accagttgga gctcatcacg tcccaccgtc tgatgggatg cagccactat ttgtagcccc 180
 tgctcctatt tctgctgcag ccataccttt cagcccaact gttcccttgc aaaatacatc 240
 agctgcttgg atacaagaag ttactccaag gcctgctacg acacgattcc ctggctcctgg 300
 tacgggggtc ttacttgctc cgggatcagg ccaccctctg cctcatcaga tgatgccggc 360
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 cgtcaatggc acagagacat ctaatggcaa tctttc 456

<210> 53656
 <211> 458
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-035-Q1-K1-F10
 <400> 53656

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 gggagggtcc gacggccgag gagctgaaga cagcgggggc ggagggtgatt cccggcgggc 120
 tgcgagtga ggggtgggtc atccagtccc acaaaggccc tctcctcaac gccgcctctc 180
 tgcaacgctt tgaagatgaa cttcaaaca cactttacc tgagatgggt tttggagaga 240
 gtttcttgct acttcaacat acacaaactg gcatcaaatt tcattttaat gcgcttgatg 300

cactcaaggc atggaagaaa gaggcactgc cacctgttga ggttcctgct gcagcaaaat 360
 ggaagttcag aaggatcatct ataactgtaa ttcatttttag tactcaattc agtactaccg 420
 agcattttgta gtgaaagatg ttaggttagt ttggcatc 458

<210> 53657
 <211> 345
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-035-Q1-K1-F3
 <400> 53657

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 gaggaaaaaa taataaataa aaaaaacaaa aaaataaata aaaataaaaa aaaaaataag 120
 gggcgcccggt tttatagggtt caaagtttac ttacccttgc ttacaccttc attgcttttt 180
 aatagagtcc cttaatttca attatctgcc cactttttta caacttcgtc tcttggaac 240
 cccttccttt cccaattaa ttgaccttct aacacttccc ttttagtcct ttttgctttt 300
 taccgaaaag gcccttccct atcttttttc caaacatttg cccat 345

<210> 53658
 <211> 359
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-035-Q1-K1-F4
 <400> 53658

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 ctgctgtcga ttcaagcttg gcataagcac gtgttcgaag acgtgcatgt acatacatat 120
 actgcttaaa aaacaaaaga agcattagat gtagctcgta acagcgtaga acttatatga 180
 actcgccttt cctcttctcc tgagcacgat tctttacaag atgacttgac aaccactctt 240
 gtgcaacaat gctagcaatc ttagcacact atccatatca ttattgagac cgatggagac 300
 aattgatctg agctctctga tgccttgagc gttaacgacg agatccacaa agtgttatc 359

<210> 53659
 <211> 406

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-035-Q1-K1-F5

 <400> 53659

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 acattgtctc caatgctagc tgcacaacca actgccttgc tcctcttgct aaggatcatca 120
 atgacaagtt cggatcgtt gagggctctga tgaccactgt ccatgccatc actgctaccc 180
 agaagactgt tgatgggccc tcatctaagg actggagggg tggaagggct gctagtttca 240
 acatcattcc cagcagcact ggagctgcta aggctgttgg caaagtgctt actgtcctta 300
 acggaaagtt gactggaatg tctttccgtg tcccaaccgt cgatgtttct gttgttgatt 360
 tgactgttaa gcttgaaaag tcagcaacct atgatgagat caaggc 406

<210> 53660
 <211> 460
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-035-Q1-K1-F6

 <400> 53660

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 tgaagctgat gttgatgcaa gcttgcccca gcaggtgttc gaggacgtcc atgttcatac 120
 atatactgct gaagaaacaa aagaagcatt tgatgtagct cgtaacagcg tagaacttct 180
 ttcaactgtt ctttcctctt ctccctgagca ggatgctttg caggatgact tgacaaccac 240
 tcttgtgcaa caatgctacc aatctcagca cactatccag atgattattg agaccgttgg 300
 agacaatgaa gctgtgctct ttgaggcctt gagcgtgaac gatgagatcc agaaagtatt 360
 atcgaagtac gaagagatga agcagcccat ggccttcgag catgcagaac atgtaccagt 420
 tgtcataccg attgctgcgg agcatgaaga tttgaatgct 460

<210> 53661
 <211> 368
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-035-Q1-K1-E11

<400> 53661

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tgccgatggc gtgttcacag attgacggat cctagatcta gattaagagc tgggtatgcc 120
tcttagctga tgtaagcact ctgatagac acttcatctt tactggcgcg gacactgtcc 180
gatgatctga gactttaccg aacaatttgc tggactcaac cgatactgtg tccacctgaa 240
atctggtgtc tatgatgact tgacagagca tgcataatga cacagacaga cagtgtctca 300
tatactacac cgctgactac acagatcaac taatgttcaa ccttcatata cgcatactg 360
gtctggac 368

<210> 53662

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-C5

<400> 53662

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ccagatgcaa ttccgccctc gattcgaccc cgattcgtcc gtccgcgacc gggattccgt 120
ccgtcaagcg cggatctgaa cgctgcgctc cgtgtcgccg ctgcaatccg ccatgaaggg 180
ggccaaatcc aagggcgccg ccaaggccga tgccaagctg gcggtgaaga gcaagggggc 240
ggagaagccc gccaaaggca ggaaaggga ggccggcaag gacccaaca agcctaagag 300
ggctcccagc gttttcttcg tggtcatgga ggaatttcgc aaggagttca aggagaagaa 360
ccctaagaac aagtctgtcg ctgcggtggg gaaagctgct ggcgacaggt ggaaatccct 420
gagcgagtcg gacaatgctc cctatgtag 449

<210> 53663

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-D8

<400> 53663

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catcagcttc cagctgcagt ggttccagca ggtcacctcc gccgtgtgcg ggcaggactg 120
caagagctac ctggccaact cgctgttcgt gttcggcgag ttcgggggca acgactacaa 180
cgccatgctg ttcggcaact acaacgcgga ccaggccagc acgtacacgc cgcagatcgt 240
gagcgccatc gcggccggcg tggagaagct gctggccatg ggcgccacgg acgtggtggt 300
gccgggggtg ctccccatcg gctgcttccc catctacctc accgtctacg gcacctgcaa 360
cagcgccgac tacgacgcgc tcggctgcct caagaagttc aacgacctct ccaccaacca 420
caac 424

<210> 53664

<211> 75

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-E10

<400> 53664

ttctaaaggt tccaacttta cttccccttc ctttcaacgt aatatctttt ctatagggtc 60

acctaatttc aatta 75

<210> 53665

<211> 269

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-E8

<400> 53665

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aagccggtag cggcagggca agtggttgcc atctaaccac accctcccat gactagcaaa 120

gtatgttaca cttttcccat catcaacata catgtgggaa tctatactat aggtggtaca 180

tggcacttgc ctgaagccaa tggctgtaga ccatggagtt ttatcctttg tttttttcaa 240

tcttagattt gggatttaaa atttaaaaa 269

<210> 53666

<211> 290

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-H1

<400> 53666

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cgccgctgcc ggagctgcc agccattgat ttggcttcct gcctgctctg tctgtcaat 120
tactagtagc tgtgtcata agttataaaa tcaaaatcgc cagttcagtt ttagcagctc 180
cgttttccga tttttttctc ttctgtcggt cgcgtagca gctttgtgaa aggattagga 240
aagtgttagc atcagacttg gagaaggga aagaaaacaa aaggtaaaaa 290

<210> 53667

<211> 381

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-001-Q1-K1-H7

<400> 53667

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gcgaaaagca gatccgtctc ccccgagccc cgaccggcga tcgctatcga cttgtagcgg 120
aagccatggc gtcggcagcg ctaatctgcy gcacggagca gtggaaggcc ctccaggcgc 180
acgtcggcgc gattcagaag acgcacctgc ggcacctgat ggccgacgcc gaccgatgca 240
aggcaatgac ggctgagtat gaagggatct ttctggatta ctcgagacag caggcgactg 300
gtgaaaccct ggagaagctc cttaaattgg ctgacgctgc gaagctcaag gagaangatg 360
agaagatggt taaagtgaa a 381

<210> 53668

<211> 58

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-B10

<400> 53668

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<210> 53669

<211> 422
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-002-Q1-K1-C11

 <400> 53669

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 ctgcgcgcgcg tccctgctcg cgcggcgctg ggcggcgggc gcggcccgt gctgggcggg 180
 tggaaccgca tccctgacgt gagcgactcg cacatccagg agctaggcgg gtgggcgctg 240
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 ggcgagcagc angtcgtgtc cgggatgaac taccgnctct acgtcgacgc cgcgcacccc 360
 gncggccgca ccgtgcccta cgtcgcgcgc gtgtacgagc aggtctggac cccgcacccg 420
 ca 422

<210> 53670
 <211> 187
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-002-Q1-K1-C6

 <400> 53670

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 ccatcgagca gaaagaggag tcccgtgaaga atgaggaaca tggtgcacag atcaaggaat 120
 accgtggcaa gattgaggct gaattgagca acatttgtga tggatccta aagctgcttg 180
 acacgca 187

<210> 53671
 <211> 436
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-002-Q1-K1-D9

 <400> 53671

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 actttctcaa attcctgaga tcaactgggat tgctcanttc aacaaggagg cccaagcctt 120
 cttgattgct attattgaga atttttgcat tgatgatgca aaagaaataa agaaaatcga 180
 gaaagtaacc aaccatgatg tgaaagccgt cgagtacttt ctgaagcaaa ggtgcagctc 240
 caatccagag attgctaagg tgctggagtt cttccatttt ggctgtacct ctttaagatat 300
 caacaatttg tcacatgcat tggctctcaa agagggggta aatagagtta tgttccctgc 360
 catgattgac atatgcacag cattatgttc cttggcgaca cataattcag gctaccctat 420
 gttggctcga acttat 436

<210> 53672
 <211> 363
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-002-Q1-K1-F10
 <400> 53672

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 gtcgtgtgcc tggctctgtc agctgccagc gcctctgcaa tgcagatgcc ctgcccctgc 120
 gcggggctgc agggcttgta cggcgctggc gccggcctga cgacgatgat gggcgccggc 180
 gggtgtacc cctacgcgga gtacctgagg cagccgcagt gcagcccgtt ggcgggcgcg 240
 ccctactacg ccgggtgtgg gcagccgagc gccatgttcc agccgctccg gcaacagtgc 300
 tgccagcagc agatgaggat gatggacgtg cagtccgtcg cgcagcagct gcagatgatg 360
 atg 363

<210> 53673
 <211> 465
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-002-Q1-K1-F4
 <400> 53673

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agataaccag cacctagtgt ctctgagggc catagatttc cttgacaagc ttttgcgta 180
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 gagagccgct gagaacagca ggacgcgagc gtgacaggca aagagcgaag accatctgct 300
 cttttatcag tcagtcagggt tgtatgagat gagtagccgt tgggtcactt ggcagaaaat 360
 aaacaatagc ggtagagcct gtactgtacg taacgtaacc tcctcgagga gttgtgaggt 420
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<210> 53674

<211> 454

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-H7

<400> 53674

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 gattgctcag cacgagagac ggccatgtga ctacatcgac gcccaactcg agatcaactc 180
 taagatgagg gctatcctgg ctgattggat aatcgaagta caccacaagt ttgaactgat 240
 gcccgaact ctctacctga ccatgtacat catcgatcag tacctctcgc tgcaaccagt 300
 cctgcgtaag gagctgcagc ttgtcggcgt ttcattctatg ctgatcgctt gcaagtacga 360
 ggagatttgg gcccagagg tgaacgactt catcctcata tcagacagtg catacagtag 420
 agaacagatt ctttcgatgg agaaggaat tctg 454

<210> 53675

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-A2

<400> 53675

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 cactgattgt cggtgcgctg actgatggga atcaggaaca gaagaagatg tggagattga 120
 tgatgagaag aaatctgaga ctgctatgac aatgaatga gcgttatggg cttggaatga 180

taggatggcg gatcagattc ttttgctggt gagcaatgcc actcaagcag gggcgccgta 240
 caattttaac agcgctgctt tgctattgag gagtctggtt gttactgcat actcgggcac 300
 gcacgctctt ttatcatctc acctcatcac catcatccca catggaccaa tgctgctctgg 360
 cggctcctga ttttggctctc ttcgaaactgt aatatctgca gtgaggtttt tccatcagtt 420
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<210> 53676
 <211> 424
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-B5

<400> 53676

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 aaacagagtg gtgttcggta gagtttcttc caacctcact cttattctgg agtctgctaa 180
 tgaggaaagc gagaaatgac aagttgcatg agccaagggt taccctttct ggctgctcca 240
 agccatataa tttagggtgg ttggatcctt catggatatt ttaatgtact tctgttggtg 300
 gccttcgtaa gaagtgcag tatcccgggc gtctttcagc tctttgtatt ctctgctctt 360
 taatatagtg gggcgagtt ctctgtgct tttcgagaaa taaaataaaa agggcggtcg 420
 ttct 424

<210> 53677
 <211> 321
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-B6

<400> 53677

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 aaaaaaaaaa aaacaaaaaa aaagaaagga tattataaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaggacaa ccaatctaaa aaaccaacc ttaccctctc ttactttccc 180
 aatcctaatt ccccttattt tccccctaa attcattcca ttgcccctcc ttatatatat 240

tcttaacttg aaaatcccct cctttacctc tcttaatacc tttccctcac ttactttttt 300
 cccagtttag cacattccct t 321

<210> 53678
 <211> 404
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-B7

<400> 53678

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 ttcttggtgg acttccactc acatctacat gttgaaaacc attatgggac tcttcattgtg 180
 tagactcgtg tagagactct tggacatcca tattgacaac gatcattaaa ttaaccactt 240
 ctggagcaaa aaaaaaaaaa aaataaaaaa aaaaaaaatg aaaaaaaaaa aaaaaaaat 300
 aaaaaagggc tggccattag ggccggccct ttataggatc caagtttatg tacccttgca 360
 tgccaccta aaggtctcct aaattgaaac ctaaggccaa tttt 404

<210> 53679
 <211> 72
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-D10

<400> 53679

aatataatta cttttgtacc aaatttatgt atttttatca aaatacttct atcttcatta 60
 aacttttttt tt 72

<210> 53680
 <211> 156
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-D5

<400> 53680

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aaaaaaaaa aaaaaaaaaa aaagaagata taataaaaaa aaataaaaaa cacataaata 120
aaacaaaaat aaataatatt taaaattaca taaaat 156

<210> 53681
<211> 372
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3079-003-Q1-K1-E2
<400> 53681

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cataaaacaa agacgaactt gtgtaggctc actgcaacaa aaaggaatga aacgatactg 120
aaccacgcat gagttcacca taaggtaggc aaagacaaaa cacagtaata cttcttgata 180
ttggtttatg cagttcacat tccatttcat cttctactgg gaaggaatgg gctgcatctc 240
tggtgctgca gcaacgtcag ccacggggta cctgaacacg cgggcgagcc gctcagtggg 300
caccagcggg agataggtgg ccacggcggt cccgcgcttg gcaccatcac gcaccgncga 360
attgtacctg gc 372

<210> 53682
<211> 466
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-003-Q1-K1-E3
<400> 53682

tatacattgg gcgagggggt atcatcacat ccttcattgt gtgctatgct cttacatcgg 60
gtatttctgg atatgttagt ggtggtcttt actcaaggag cggtggcaaa aactggatta 120
aagcgatggt tcttacagca tccctcttct cgttcttggt tttttcaatt ggtttcgcac 180
tgaatacaat tgctattttc taccgctcat tagcagcaat accatttggc acaatgggtg 240
tcatgtttgt actttgggct ttcatactct tccggttggt gcttttggga actgttggtg 300
gtagaaactg gagtgggtgct cctaacaacc cctgccgagt aaagactatt ccacggccta 360
ttcctgagaa gaagtggtag cttacacctt ctgtcatctc attgatgggt ggctgctttt 420
cctttggcag tatcttcatt gagatgtact tcgtgttcac atcatt 466

<210> 53683
 <211> 359
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-003-Q1-K1-F10

<400> 53683

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 tctatttaat ttactggaaa acacatgtaa cggttcccat gtagaccggc gccgtgagac 120
 ccacatagtg ctcatctcat agcaacgcat agacatacca tgcattgcaac atagctactt 180
 tggtaagacc aatactgaca tagcgccaca cggcgaacat acagacacgg cttacgcaca 240
 tcatgatgcc tcgagatata tccggttcat acatcatcac cttcatgtca gtgttccatc 300
 agtgaccgca cgcattggtg cgggcactac atactaagct cccattacat gcgtgctcc 359

<210> 53684
 <211> 421
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-003-Q1-K1-H9

<400> 53684

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 aggaaactaa agaagacatc aaactattgc gcatccaaat tgaagatgat ctacaaaatg 180
 gagttgctgg ggctgttcca gttccacctg atgaggggtg caaagaagag gttatcaatt 240
 cattggttgc caatgttgaa tcaatgatta aagcagaccg gaagatcaca tcattgaaac 300
 aacttcaggg tcatatttgg aggattggat ttcaaaagaa agagctacag ggagttgtct 360
 ttgaggatgt tcctgtggcg ctaaagaact ggcatgctaa tggcataaaa gtctacatat 420
 a 421

<210> 53685
 <211> 83
 <212> DNA

<213> Zea mays
 <223> Clone ID: LIB3079-004-Q1-K1-B12
 <400> 53685
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 tgggcgcaac aactttttaaa aaa 83

<210> 53686
 <211> 233
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-004-Q1-K1-B7
 <400> 53686
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 tcttccctag ttcaacaact agctttctgc tggaataagg tgttcagagt tcagacagag 120
 tatgtactgt acatactatc ttcttgcatt tgggtactctt gtttagtgaa aagcgttccg 180
 taaccttcgg ttgcctaaaa aaaaaaaaaa acaaaacaaa aaaaaaaaaa agt 233

<210> 53687
 <211> 67
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-004-Q1-K1-C10
 <400> 53687
 aaaaaaaaaa aaaataaaaa aaaaaatttt aaaaaaaaaa aaaaaaaaaa aatggaaagg 60
 aaaaaat 67

<210> 53688
 <211> 461
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-004-Q1-K1-C4
 <400> 53688
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agctatctgt gattgggcga aacttgaaac ctgagttttg aaaaggggat gggacgtacc 120
 atagctgcag tgcgaattct cagtttctaa gtgagctgaa atggatgcct tggaagcctn 180
 gattacttcg tcaaagttaa aatgaaatct gatggcnttt ctgaagaaaa agggctttgc 240
 ctcattcatt cgtgtgttta tcagcgagcc tttgtcggct tgtttggagt tggatcccaa 300
 gctgttaatg gagcgattgg tcaactgccg tggctcattc cttgcttgct gtgaaagtct 360
 gcaaggcctt tgagattgga agacaattga ttttgtttga acctgaatga aggccttcgc 420
 tctctcaagt ttgtctatct gctgcaacaa agttgggggc t 461

<210> 53689

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-C7

<400> 53689

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 acaagaaaat tagaagagaa gaaaattaac gacggcatga gtgaccacct tggtcgtggg 120
 tattcgtttc atatagatac agatgtacgt agtattatat atgagaacga agacgtgcac 180
 aggctccagc tagctatcaa gaatcaagga cgcggtagat gacgacgaag cagggcagga 240
 tggccctggg gttggccacg aagagctcct cgaggttccc gtacacgctg ctgctggcgg 300
 cgtcctcacc cgccaccgag tcgaacgggc ctctctgatc ctcggcggca gcggcggacg 360
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<210> 53690

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-C8

<400> 53690

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 tgagaggggtc agggttgggt agcagcagca ggaccggctt gttcgccggc gactgcaaga 120
 ggaaggctcg tcgcccggcg tgctcggcct gggccctcag gcagagccgg atcggcagca 180

ggagcaggag caagaggggc ctggcatcg tctgcaacct cgcgggacag tacgaggatt 240
 ccttcgacga cgtccagcgg caactgatga actacttcac ctacaaggcc gtgaggaccg 300
 tgctgacca gctctacgag ctgaaccgc cgagctaccg ctggttctac aacttcgtcg 360
 ctgtcaacaa gcctaccgac ggcaagcatt tcctacgtgc tctcggcaag gagaggcaag 420
 agctcgaga gcgagtgatg gtcaccaggc t 451

<210> 53691
 <211> 184
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-D6

<400> 53691

tgagtctgta ataatcagga catgattaat ttaggtaaag taatacatct atggccgtct 60
 tcctttcatt cagaaaaaaaa aaattaaaaa aaataatttt aatataatag taaaataaaa 120
 aaaataaaat aaacaaaaaaaa aaaaaaaaaag ggcgaccgtt ctaaaagatc caagcttaca 180
 taca 184

<210> 53692
 <211> 390
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-F11

<400> 53692

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 aagcgacacc atgaggagga aagggtcaaaa tccaaactct cctggctctc gcaacgagcg 120
 ccacctccac gcatacaagc ggcggtgctg gctgccagcc accgccgccg gttcatctac 180
 cgccgccggt gcatctgcca cctccggttc acctgccacc tccggtgcat ctcccaccgc 240
 cagtccacct gccgacgccg gtccacctgc caccgtcgga ccatgtgccg ccgccggttc 300
 atctgcccc gccaccatgc cactacccta ctcaaccgtc ccggcctcag cctcatcccc 360
 agccacactc atgcccgtgc caacaaccgc 390

<210> 53693
 <211> 359
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-004-Q1-K1-G12

 <400> 53693

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 acaaggtaat acatgagttc aacagggcac aatggctctc aaaagtccat tcatacttgc 120
 gacttgactg gttatttagg tgataacgat ttgggggtccg gcacattcac cagtttggcc 180
 agcttttagc cttgcttcta gcccattggc tactttctgtg tccaggagcg tgcggtggac 240
 tcatacttgg ccctgtcggg cttgtacatg tgagcaatct cagggacaag aggatcatca 300
 ggggttgggt ccgtgagcag tgagcagatt gacaggagaa cctttgagat agttaaagc 359

<210> 53694
 <211> 433
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-004-Q1-K1-H12

 <400> 53694

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 gttcgctctc ctagctctgg gtgcaagcgc cactagtgcg acgcatattc cagggcactt 120
 gccaccagtc atgccattgg gtaccatgaa cccatgcatg cagtactgca tgatgcaaca 180
 ggggcttgcc agcttgatgg cgtgtccgtc cctgatgctg cagcaactgt tggccttacc 240
 gcttcagacg atgccagtga tgatgccaca gatgatgacg cctaacaatga tgtcaccatt 300
 gatgatgccg agcatgatgt caccaatggg cttgccgagc atgatgtcgc anatgatgat 360
 gccacaatgt cactgagcag ccgtctcgca gattatgctg caacagcagt taccattcat 420
 gttcaacca atg 433

<210> 53695
 <211> 446
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-005-Q1-K1-A4

<400> 53695

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actctcagct cactnagcggc atgcagggtgc atccccctggc gagcgcgtgt cccgggtgata 120
tgtcgccaaa gatcaagggg cattagacgg acaagtgcga aggatgtgag catgcanttg 180
tgcacgaatc tgcgacgcct tcgtaccaac ccaagagcag caacacgatt acatctatat 240
ccgtcgctta aatccgtttc gtttcacgc atgcatatgt atcatgcatg ttcactgtaa 300
tgataagagc acgtgaccct atcttttggtg atatggatca cccaccacaa aacggcctat 360
tggtttttat cctaattccat atatagattg gatgagattg agagagttaa attcttaaca 420
aatcagaata tctcttaatg tctcct 446

<210> 53696
<211> 275
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-B10

<400> 53696

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gatagaatgc atgtgtgcat gcgtatgcac atgagaatgc agataatata tatgacagtc 120
tctacgagtg atatattctag ggatataatg acggatggca tgccttcat catgaacgtg 180
atcaagaaag actttatata tgtctgcata cataagtaca aattaatgat gggatcaatc 240
atgtgtgcag acgagcatgt tgtagagcat gtttt 275

<210> 53697
<211> 353
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-B12

<400> 53697

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ggaccgtcaa gaactccaag ttcgtccagg aacacaagaa gcgctgacca accgggtgga 120

gtcgtccgaa tcgcctgcgg atgaaaaatt agccccctat ttttcttgtc ttttttttat 180
ctagatgcgt gcactctatt gtaataatgt aataagaggc aattggattg atccaacagc 240
aaccggcttc tgattttgat ccgcttcgct gacatatgca tgcagcaaac gaatatgtgc 300
cttttttttt tcttgatggt ggattgcac taatcctggt gaattggtga aaa 353

<210> 53698
<211> 264
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-B9

<400> 53698

aaaaaaaaa aaaaaattta aaaaaaaaat ttaaaattaa aaaaaaaaaa aaaaaaaaaa 60
agaaaaggta aaaaataaaa aaagtaaaaa acaaaaaaaaa ggacgcccac tcttaatggt 120
ccaatcttac aacccttcc atccaacctt attactcttt tatagggccc cctaatttca 180
attcactgcc cgttctttca caacttctta cctgtaaaaa ccttgtcttt cccacctta 240
atctttttta accacatccc cttt 264

<210> 53699
<211> 364
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-C5

<400> 53699

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tgagaaaatc atggcactag ggtccgggat ctatcttctg tgcgcaagat cttaggctgc 120
ccgtcaggac gctttgtcgt tctccggcac agcgaacggt gtcaccagcg cggcatcagg 180
gaaaacaccg gcctgactta gctacgtgcc gatctaggcc gaccatgtga tcggtatagc 240
acacacacac tctaaacttt tacaggctct aaacaatctc caaatattct atttgtcaga 300
cagatggcta caaagacatt gtgcatgtat atttaggagt ttgtaatcat ctagaatggt 360
gcac 364

<210> 53700
 <211> 359
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-005-Q1-K1-D1

 <400> 53700

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 cacgggtgctc ctgccacaga gaaaccgtac atcactttgc tctaccgtcc tggccactac 120
 gatattctct acccaaagtg aattttgcgc atggttagtt tcacgacttc ggttgagaaa 180
 gcacactgcc cagaaaactc gtcattgttc gcctgtgtgc tgccaaaggt ggcaaacttg 240
 cttttgagtg cttaatgcc aatgccctcg tcaatctaga tgttctctac ctgctgtaag 300
 tcttactctg gtacaaggat ttaacattgt gttgactgca gagaagttcc cgtggaaaa 359

<210> 53701
 <211> 62
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-005-Q1-K1-D11

 <400> 53701

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 gc 62

<210> 53702
 <211> 84
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-005-Q1-K1-E12

 <400> 53702

 atgacttctt atttctttaa aaaaaaaatt taaaataaaa aaaaaaaaaa aaaaaaaag 60
 ggaagggtaa aaaaaaaaaa agaa 84

<210> 53703
 <211> 263
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-E8

<400> 53703

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tgctgcatta gatgttggtc aggatctagc atggagaaca aatgcaatgt tcctgaagtc 120
agttgataga ttcaatgacc ttgtggtgtc tgtttatgta actgctggtc ataccagatt 180
catgctgctt catgactcgc gtatcgagga tggaataaaa agcttttttc aagagggtcca 240
tgaactttac atcaggatat tcc 263

<210> 53704

<211> 320

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-F3

<400> 53704

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cagagaactt gggtgttcaa tcatgtgcct cactgaatat tgttagatgc acaggatgga 120
tgtaattctg aaaacttgaa tggttatcaa gaagtacttc ataaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaaaaaaaaa aaaagacaaa cgatctaaaa gaatacggtc ttcttttctca 240
atgcattcag acataataac tcttttatag tgtcaacctt aattcaattt actggcccat 300
tatttacaac tccattgact 320

<210> 53705

<211> 295

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-G10

<400> 53705

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gatgggcgga atctccactc atgcttatcg cggtcctcct cctgctcgtt tgttacaccg 120
ggactcatgg cgggtccggtg actatggtgt cagccaagac ttgcaactcg aatagctttc 180
gctttaatgt accttgctac agggacgcca actgtgcaga cctttgtctg accgaagggt 240

tcaccgacgg cgtgtgcaac ggcctacacg accgctgctt ctgcaccaat gactg 295

<210> 53706

<211> 234

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-G6

<400> 53706

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aacctcgac cgtgtccgtc ttcaacgacc tttccagata gatcacccca cattcccaca 120

atcaccttac ctacctacat acatcgacga acctagccct aatctctgac aacgcataga 180

gcaacgacca cttaatctcc acattaacca gcaatctgtc acaagatcat atca 234

<210> 53707

<211> 216

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-H12

<400> 53707

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tcaggagacc cgacaagtgc ctcgccaaga cggccagatt gttggcctat tgattgatcc 120

atcactccta gctactccta ctctggtcgc tgcctattga ttgatccatc aatcctgtta 180

attttcagaa gagtttcaga agagtcttaa taaaaa 216

<210> 53708

<211> 69

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-H2

<400> 53708

aaaaaaaaa aaaaaaaaaa aaaaaaaaaat taaataaaaa aaaaaaaaaa aaaaaaaaga 60

gaaaaggat 69

<210> 53709
 <211> 93
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-006-Q1-K1-A10

 <400> 53709

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 aaagatatcc aacgcttccg gccacgcgtc cgt 93

<210> 53710
 <211> 463
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-006-Q1-K1-A2

 <400> 53710

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 ctgatagtga tatcgactcc atcgttgatg ttggtggaaa ctcatatgca aattcaattt 120
 atgaggcttt tcttccaaaa gatcacccaa aacccaaacc agattcaacg atggaatata 180
 ggacaaaatt tataagagct aagtatgaga cacaagattt tttgaagcca agtttgcgca 240
 tttcatcaag atcatctttt aaatctacca cttctgtgaa gagtgtagat agcaatttct 300
 ctagcacttc aaggaaggat gtctttgaag atacaagaga atttgttgga gagttgaata 360
 tcacactggt caaaggcacc aacttggccg ttagagacat gctaacaagt gatccatatg 420
 ttgttttaac gctcggaggg cagaaagttc aatcaacggt taa 463

<210> 53711
 <211> 379
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-006-Q1-K1-A3

 <400> 53711

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 ggctgacacc tccaagaagg gcgagggcag gctccgggcg ggcggcgccg ccggaagcg 120
 caagaaggcc gccgcgagcg gcaagcccaa gcgcccgcgc tccgccttct tcgtcttcat 180

gtctgaattc aggcaggagt atcagggcgt gcaccctggc aacaagagcg ttgcgaccgt 240
gagcaaggca gcaggggaaa agtggcgtgc tatgtcagat caagagaagc aaccatatgt 300
ggaccaagct ggacagaaga agcaggacta tgagaagact aaggcaaact ttgataagaa 360
agagagcaca agtcaaag 379

<210> 53712

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-A7

<400> 53712

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acaaaaaaaa aaaaaaaaaa aaaggagaaa atatcaaaaa atcaaaaagg aaaaaaaaaa 120
acaaaaaggt cgtcccttct atacatccca tacttacttc cccctccatc caactttctta 180
gcttttctat aagcactcct aaattcactt cactgcccac cttcttacia ctaatagact 240
tgcaaaacct ttcctttacc caacttaact gcctttcaca aaatccccct tctaccacat 300
gtcttaatac ccaaaacgcc cgaaccgatc acccttccca acaattcccc acccataatg 360
gccaatggta caaccctttt 380

<210> 53713

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-B1

<400> 53713

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caatggttcc gtatacatcc aaaaagaaag caagggggag attatttcag gtgccacaag 120
accagtatat gctctagagc cacatgacgt aggacgctat ttgcaagctg aaatcgacgt 180
aggcggcgaa atcgcagtag caaagactgc tggggccagta gaccctgatg ctgggttggt 240
tgattatgtg gagacgctcg taaggaaacc tgaaactgaa ttcaatgttg ttgtgcttca 300
atccaatggc gtcgatcagc caaaagagtc ggttcatgta ctaaatgtcg ggaggctgcg 360

gatgaggctt actaaagggga agtcggtagt cgccaaggaa ttctattcct catcgatgca 420
gttatgtggt gtg 433

<210> 53714

<211> 203

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-B12

<400> 53714

aaaaaaaaa aaaaaacaat aacaaatttt attaaaaaaaaa aaaaaaaaaa caaaaaaaag 60
aaggcttaat aaaaaaaaaa aaaaaacttt aacaacttca ttaaaatcca accttacttc 120
ctctttcatt ccaaatacata cttttcttat aaagccacct aatttcaatt cactgaccat 180
cttttaacaa cctcaaccac tgc 203

<210> 53715

<211> 216

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-B6

<400> 53715

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tcatggagcc cgacaagtgc ctgcgaaga cggccagatt gttggcctat tgattgatcc 120
atcactccta gctactccta ctctggtcgc tgccatttga ttgatccatc aatcctgtta 180
attttcagaa gagtttcaga agagtcttaa taaaaa 216

<210> 53716

<211> 288

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-C3

<400> 53716

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ttgttggtcc taaaatagtc agaatgacat gacatctgtg ctatagatat ggacctcggt 120

ggttttctcc acattaggaa agctagaaga gccttttgaa ctccagttttt ttgctaacag 180
 tgggtgttatg gtgaaacaga gttttgtgtg tatgtaccaa caactaaaat gtaaacacga 240
 cattatcata gttgagtaca ggaataatta tctcttatat cttattgc 288

<210> 53717
 <211> 459
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-006-Q1-K1-D7
 <400> 53717

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 gttgccttgt gagcttctag taaataccaa tcgtctttgt atgttgtgtg gatgggtggtt 120
 ggcaacgttg tttatttatg cgcaagctgc tgctggtttc gggatggaag gaaagacctg 180
 gtccctgaaa caagctgctg agagtgagcc tgtcagtgtg ttgtgtctgg cgtgggtcaag 240
 aaccaaataca atgttggacc gaccgactga gagtttggag tgtgtatggt ttgctattac 300
 tcttatctct agtagagtgt gggatatacct gggcagaatg tgtcccaaaa agttgggggc 360
 ctgtctgtgt actgtgtgcg atggacgcc taagtaaaaa aagggcangt gatgggtcgtg 420
 ctccaggttt gtgttttgta ctctgttgta ccttgaacc 459

<210> 53718
 <211> 127
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-006-Q1-K1-E1
 <400> 53718

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 gcgctgtaaa gtagtggttg tgtggtaaata tcagaatgtg taagttgaat ttatgttatt 120
 accaaaaa 127

<210> 53719
 <211> 190

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-006-Q1-K1-E4
 <400> 53719
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 cctcttagta tgtaaaagga gtggttggga catgtggtac tctctcctag aactttaatt 120
 tgagatttgt aacatgtgag agactattga gaataatatg tatggagtaa tatgcttcct 180
 tcttttaaaa 190

<210> 53720
 <211> 452
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-006-Q1-K1-E6
 <400> 53720
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 aatttcatct ggaaggcaaa cgcgtattgg aggttggatg tggacatggc ctggctggca 120
 tttttgcggg tctcaagggt gctgacctga ttcatttcca agatttcaat gccgaggtgc 180
 ttaggtgctt gactatacca aatgtaaaag tcaatctttt caaggattca ccagaaggaa 240
 catgtacatg tccgattgtt ggtttctttg ctggtgattg gagtgaaatg gataagctac 300
 tactttgcgg ggatgctgag caagacaaaa cagccagtgg tgatacagaa ggtaaaatgt 360
 gtaatggtta tgatatcatc ctgatggctg agactgttta cgcggtatct tgtcttccaa 420
 atctctacag gctcatcaag aagtgcttgc gc 452

<210> 53721
 <211> 459
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-006-Q1-K1-E8
 <400> 53721
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gctagctgag gtcgacgatg gctggtntgc tgaacagcag gaagacgccg caggcggtgg 120
 tggccgtgct ggtggcggcg gcgctgctgg ctctgtccgc ttcggcggcg atcacctgcg 180
 ggcaggtggg gtcgtcgctg gcgccgtgca tcccgtacgc gacggggagg gccagcgcg 240
 tccccgcgtc gtgctgcagc ggcgtcaaga gcctcaacag cgcggcgcg accagcgcg 300
 accgccaggc ggcgtgccgc tgctcaaga gcctcgccaa cagcgtcaag agcgtcaaca 360
 tgggcaccgt cgccaccatc cccggcaagt gcggcgcttc cgtcggattc cccatcagca 420
 tgtccaccga ctgcaacang atcagctaag ttacgacga 459

<210> 53722

<211> 315

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-E9

<400> 53722

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 aaaaaaaaaa aaaaaaaaaa aaaaaaaagc aagattaaaa aaatataaag agatacaaat 120
 aaaaaaaaaa atacatacaa cataataaac atacataaat aaataactaa atacaattaa 180
 ataacaaaaa attttacaac ttttaaaact gctaaaacct tgaaactacc caacttaatc 240
 tcctagcact aaatccgcct tttaaaaaat actttaatct ccaaaaatct caccctatc 300
 tcctttaaaa acatt 315

<210> 53723

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-F3

<400> 53723

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 tttcagaaac cacctcttct gtttagctat tttgggcagt aagtcaagca gtgctttgta 180
 ttttgtaaata aggcattctt tatgttaata aatctgtata gaaacaaaat tggtcattca 240

ataatcaata gtattatcag aattacattt ctgtactaca acaattatit tatcaaacia 300
gttaaaaaaac tatcttgga attttatcca acctatitit ttctaagtea tgtttaggaa 360
ggtaggtttg taatititac tattacaagc agttatacta attgctatta aatactactc 420
aatttacatt tagcattctg tattcagtgc tg 452

<210> 53724

<211> 457

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-006-Q1-K1-F5

<400> 53724

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gcctcttgct cggttccca cccctgctgc ctgcgttgca caccagggag gagctcctcc 120
gaccgaccgg ccatgagcta ccaggctcct cctccgggca cctcagccta cccgccgccg 180
ggcacggcct accctccgcc aggccagccg caggcgtacc cgccgccggc atacggcgcg 240
ccgccacca tggccgccgg cgggtaccct ccccgccgc agcaggactc taaggcgggc 300
aacgacggct tcctgaaagg atgcttgcc gctctctgct gctgctgcat gctcgacatg 360
tgcttctgag ttctgctga ggggctcagg gcacgngat ggccgccta gaggccagac 420
cgatctccat catgcagtca ggcgaaaaac aatgcat 457

<210> 53725

<211> 343

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-F6

<400> 53725

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aaaaaaaaaa aaaaaaaaaa aaaagcaaaa tttaaaaaac aaaaaaggcc tacctacttc 120
atccatccaa cttcatcta ccatccttcc aacatcaact ctctcattit accccaccta 180
aatcacaatt ctttccccct ccaattccca acactcacta ttcttaaaaac cctatactta 240
cccaacttaa tcattctcca caacatacac ctttctccac cttaccaaat ttctaacagc 300

ccctacttca tctcccttac taactacttc tccactctat tct

343

<210> 53726

<211> 456

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-006-Q1-K1-F7

<400> 53726

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atttcaagac tggagctgag agaaaggact gtntcgataa caccatggtg gcgtacaagg 120
ctgcccagga cattgctttg gctgagcttg ctccaactca ccctattagg cttggactgg 180
cactcaactt ctcagtgttc tactatgaga ttctcaactc acccgatcgc gcctgcagtc 240
ttgcaaagca ggcttttgac gaggccatct cggaactgga caccctgagc gaggagtcct 300
acaaggacag cactttgatc atgcagctcc ttcgtgataa cttgacccta tggacttctg 360
acatctcgga ggaccctgcg gaagagatca gggaggcgcc caagcacgac tcgagcgagg 420
ggcagtaaag ccggctttac gtgcctagaa gctagt 456

<210> 53727

<211> 368

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-F8

<400> 53727

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ggaatggaat attatcgttt ttatagattt tggttaatctg ttagtatgtg tttggctgca 120
ctctaataca tcatatattt catccgtctc aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
aaaaacaaac taataacaaa aaaaaaaaca aaaaaaaaaa cgcttgcctt tttaaagaac 300
ccaagctaac gaccccgacc atgcaactta taacgtttta catggggccc ccaaaattaa 360
atcacctg 368

<210> 53728
<211> 367
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-G1

<400> 53728

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ctagaggaga tccaggactc actaagcacc ataagatagt aatgaattta cttcacacta 120
cagaataatt aattctaaga tggaaaaatg ggaatttaca ggacacagca gaataattcc 180
aagatggaaa acgaatgtac cgtcagacct ctgctcatcg atagatatgt atacaagaaa 240
caatatatat aattctcacg tcctcccgtc tcccctccct ttctctcccg caccacctcc 300
gtgtaatacg tagtgtactg tgtaccctat gtaagttaag gaatgctgca gattcagatt 360
acgcatt 367

<210> 53729
<211> 386
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-G2

<400> 53729

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gcgcgcgcct gtcggcgccg actggtcaga tcgtgccggc gtaccggaac ctgctgtcgg 120
gcaagtgcgc ggcggcgggc ggcggcgccg acgaccccgt ggtggccaac aacgtgcgcg 180
acgaggaccc gcgcgcgcgt gcggcgccct tcccgctcct cctcggaag ctgcgcaagg 240
ccagggactt tctggacaac agctactacc acaacaacct ggcaaggatc gtcaccttca 300
actccgactg gcaactgctc acggagaagg aggcgctggg gcacgtcaag gactacgccg 360
agaacggcac cctctgggac gaggac 386

<210> 53730
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-G4

<400> 53730

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gcactctcct gtgctgacaa atggaccctg tccagctcaa gtgagccaca taatatatct 120
ttccattact taatacctga aggaagcata ctattagaca taccggtata tattattggt 180
cttagtcatc gcacaagact cttgtcaaca agaccaacaa caggatgagg actgccgtgc 240
atgctgcgct ttgcattgtg cttgtgataa tgtcttcaac actgtcatct tgcgaggacg 300
atgagaaggc atctatcgca tgtgacacag gatgcaatgc cgcatctcc cgtctcaaat 360
gcttctgat ggcctattct gaagggaaag tgttggtcag cagcaactgc gaaacg 416

<210> 53731

<211> 428

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-006-Q1-K1-G6

<400> 53731

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ttttggctgc acaggatgat ggtggtggtg agtcattgga gcgtgtttat gagacgtcta 120
gatgcaatgg atgctggaac tgcagaaaag cgagctgctg aaattttatt tggctctgggt 180
tttgacaaac aaatgcaagc aaagaaaact aaagatttct ctggaggttg gcgtatgagg 240
attgctttag caagagcact gtttatgaat ccaacaatcc ttttgcttga tgagcccaca 300
aaccatctag atcttgaggc ttgtgtctgg ttggaagaga cactgaagaa atttgaccgc 360
atacttggtg tcatatcaca ctccaagat tntctaaatg gagtgtgtac taacattatc 420
catatgca 428

<210> 53732

<211> 313

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-B10

<400> 53732

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 caaaacatac aaaaaaaaaa aggaaggctt tataaaaaaa ggacgacgcc tatatacatc 120
 accaacccgt ctaccatata tcgctttccc ttccttttct ccaactgtcc atgtccctac 180
 ttatcctacc cgccttacta ccaactcaaga tctcatcaat tcctttaatt tttccgcatt 240
 taataacttt tcgtctcaac ctccattccc taactttctt actaacgcta tcacttgcac 300
 catctcacac ttc 313

<210> 53733

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-B12

<400> 53733

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 tggttgcttt ccatgattct tctagcatcc tttgttgctc atgcacgcac aacaagtggg 120
 cacaccaaag aggacagcaa tgctaggaac atgacgatga ccaagacgag ggcacggggc 180
 aacatacttg ttagccgtaa tgacgacggg ccatgctatc tagattccgg tcttaatgag 240
 tacgtctgca gaaagactaa taagtgtat aagagcttgg tgctctgcgt ggcgagttgt 300
 caaccatcat catgaattca tgatactgcg gagacatcat gatactgcgg agacagacgg 360
 cgagagatga ggctagctag atgctgtttc accaaaatat tatgtaacac ccaaac 417

<210> 53734

<211> 238

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-C12

<400> 53734

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 ccgctaaaat taacaactct aggaacggt actcaaaacta gcggctgacc agcatcatta 120
 cattcaccaa ctcttagact gccaacacaa atcctatctt acttacatcc aagactcaca 180
 ttaccgacct tttaatcatg attctgagct tcaacctgta aacacatatg aaaactat 238

<210> 53735
<211> 362
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-C4

<400> 53735

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aaaaaaaaca aaaaaaaaag aaagctattc aacacagagg acgccgaacc aagcaaaaaca 120
atactgtcac acaaggacgg ccgaccaagt gctggttctc gcaactacgcc tccacggcgc 180
tgaactggcc gggcgccctc cgggtgccgc ctcatcgctc tccgagtctc gcgcttcctg 240
cccctgcttc ctgtgcttcc tgttcaccag ctccctccta gtcgcctcgc acccctgctg 300
cgcgctccct gtcgtgtcgc cgatctccgc ccgcggctgc gttcccttgc tcgacgactt 360
cc 362

<210> 53736
<211> 466
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-C7

<400> 53736

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gccacatgta tagtgccgga tgcccagatc gggagatcgt catccggact tcgggcgaga 120
ctcgattgag caatttcctc ctttggcaga caacgtttag tcacttgcag aatccagatc 180
ctttgtggcc cgagtttctc tttaggcacc ttgtttgggc tatcttgcag tatcagagag 240
tttaccttgc tctggagcat aacagaaagt tggctaagaa gcagttgtga ttccatgtta 300
tttgcaaaga ggtatcatga agggctatta acatcaaact tttccttctc aatttcccg 360
taatgggaaa tgcaaagaag aacatactag catataacat tatgaataga tcaccatgta 420
acttaagtgt gattgctacc gtaacatgt aacttaacca tgtaac 466

<210> 53737
<211> 125

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-007-Q1-K1-D3
 <400> 53737
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 aaaaaaaaaa aaaaaaaaaa aaaaaagaaa acttaaaaaa actaaaaata aaaaaaaaaa 120
 catac 125

<210> 53738
 <211> 342
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-007-Q1-K1-E8
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 gctatccaga aaggtctcac ggaggacagc atgggatgga cgttgcagct aacttagcag 120
 cttttttcac atgatcgagc tctacaactc ttattttccgt tttctcgata agtctcactt 180
 ctatcaactt gttcttctgt tgaaacagag tactttaaaa gggatcccca ataatgactt 240
 tccctgtgta ttgctgatat gttggcacta gatatttttg gaaactctat ttaaagcaca 300
 gtgttttgca ccaaaaaaaaa aaaaaanaaac aaaaataaat aa 342

<210> 53739
 <211> 295
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-007-Q1-K1-F12
 <400> 53739
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 aaaaaaaaaa aaaaaaaaaa agaatatataa aaaaaatta aaacatcata aactgaaaaa 120
 aaaataaaaa ttaaaaaaaaa ttaatcaaaa taaaaccaa aaaaaattta ataaactaaa 180
 aataatcaac aacaataaca ataaacaata aaactataac acatatttac aacctgaatg 240

cctttttcta ctccccactt attctgcacc ttaatctcct taaaaattct ttttt 295

<210> 53740
<211> 435
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-007-Q1-K1-G8

<400> 53740

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gggaacactg cactagatgc agctttgaat gctcaatttt tgggtccagat tgggtattttt 180
acagcagtgc cgatgataat ggggtttcatt ctggagctgg ggctgatgaa ggctgttttt 240
agttttatta caatgcagct ccagttctgt tccgtgtttt tcaccttttc gcttgggaaca 300
aggacacatt actttggtag aacaatcctt catggcggtg caaagtatcg tgctactgga 360
agaggttntg ttgttcggca cataaaagt gctgaaaatt ataggctcta ttctcgaagt 420
cactttgtca aagcg 435

<210> 53741
<211> 304
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-A2

<400> 53741

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gacccgcggc acctacaagg gtgatgctgc cgccgacacc gagagccttc acgtcaagga 120
ctacaagtac tgagttgctt ctctttgcga tcccgttggt ttggaactcc tgctgcgag 180
taggttgctg agtggtgttt gcttggtaga gcttttatat tcggacatga aaaaaacatg 240
cttcctatgt ggatgatggt tatctttata ttcgtatatt aactactagt ctctgttggt 300
aaaa 304

<210> 53742
<211> 177

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-008-Q1-K1-B10
 <400> 53742
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 ggtataaaat aaaaaaaaaa aaaaaaaaaat aaaaggccgg cctttctaaa gtttccaagt 120
 ttacttacgc ttgcttgcaa cttcatactt cttctatagt tttacttaat ttcattt 177

<210> 53743
 <211> 409
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-008-Q1-K1-B7
 <400> 53743
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 actggcactc aacttctcag tgttctacta tgagattctc aactcaccgg atcgcgctg 120
 cagtcttgca aagcaggctt ttgacgaggc catctcgga ctggacaccc tgagcgagga 180
 gtcctacaag gacagcactt tgatcatgca gtccttcgt gataacttga ccctatggac 240
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 cgaggggcag taaagccggc tttttaacc gtgccctaa gaagctaagt annctagt 360
 tttgcatgc ttgtctttaa tgaccactta ttngcaatgt ntngatctg 409

<210> 53744
 <211> 142
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-008-Q1-K1-C10
 <400> 53744
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 aaaaaaaaaa aaaaaaaaaa aaaaagggtgt aaatttaaaa taataaaaa aaattaaata 120
 aataataaaa aaatataata ta 142

<210> 53745
 <211> 333
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-008-Q1-K1-G10

 <400> 53745

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 atccatattt gctgttcttg caagtgaact actaggagca caagtctatg tgccacagcc 180
 ttcatgtcca tgtactaccc ttgttcagat tctacagggg agcacaggga ccactctgta 240
 gctttagttg taccaacgct tctattaaga agtttacgga tgcacttgcg aagcacaagc 300
 ctgatacatg gaaccttggc ccaaccaggg ggc 333

<210> 53746
 <211> 406
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-008-Q1-K1-H10

 <400> 53746

 cccacgcgtc cgcccacgcg tccgcccacg cgtccgccc cgcgtccgcc cacgcgtccg 60
 gacgaagtgc cagaagcgcg cgagcatcca aggactttgg ctcttttcca tggttcttct 120
 agcgtcgtcc tctcttgtct gtgcaagcat ggcggtagat gggcaaacca aagaggacat 180
 caacgcaacg agtgtgacga gcatgaacat gacgaggtcg tcgtcggcga gctacaacat 240
 gactggcggc ggcggagaac ttaacagagg tccgtgcgtc gtgagatctg gattctactg 300
 gtgccagaac attggctatc cgaccatgct ggagtgcttg aagaactgcg aatcgtaaag 360
 cactggagta tagaaaagga ataaagtggc ctctgctagc ttaaaa 406

<210> 53747
 <211> 210
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-008-Q1-K1-H12

<400> 53747

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atccatacaa gagcctcgcg ccgacgggtca gattgttggc ctattgattg atccatcact 120
cctagctact cctactctgg tcgctgccta ttgattgatc catcaatcct gttaattttc 180
agaagagttt cagaagagtc ttaataaaaa 210

<210> 53748

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-009-Q1-K1-C5

<400> 53748

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gcttttttagc aatcaaagga atgaaaaggg attgggtcat ttgttatttg tcctatcaac 120
accctatatt atggctacaa cactatgtac aaagtgacat catacaatat atatatagca 180
tacgcctaat ccactggagg ataatgtaca ttcacgtgc aagctatacg acatggataa 240
aacatggtta attgaacaga gagatgataa tcggttggtc attgctcttc taagagaatc 300
aaaaatgagg ctatctgatg atatcattga gacaatcctg gataagacat tctctgatgc 360
tgatgcaaat 370

<210> 53749

<211> 185

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-009-Q1-K1-C8

<400> 53749

gggtcagcgc agtgatcaac ctttttacca ttttaagtgat cagtcttaat attgtacatg 60
cacttgggca cacacttgga aacacaggtg ccctaccaga cacacgcatg atgcgtgcat 120
acactacata caaagacggg agccatgtcc acgccacgta caggcacagg gctcgccggt 180
cacac 185

<210> 53750

<211> 341
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-009-Q1-K1-D4

 <400> 53750

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 ggtgagttac acgctgggcg ggggttggtc agccgtcggc aaccacctca ttcccatcag 120
 tctcaccgtc gccttcgagg caaactcgaa tcctcctcgg tcaccacatc cacagccgtt 180
 ccgagcttga gccgtctggt gctccggtaa attgcccttc atcttgtttc ctgtagagag 240
 aggtcattta ttgtgaccgc atgccttata ttaagacaag tcgtgtcaag ttttctgaac 300
 gatgggagct tattgaacca accatcctgg tgttggatgc c 341

<210> 53751
 <211> 108
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-009-Q1-K1-G5

 <400> 53751

 cccacacgta cgaaaaaaaa aaaattaatt ttataaaaaa aaaacaaaaa ataaagacaa 60
 ggatatatat aaatgttggg tgtgaattaa tttataggcc attaaatc 108

<210> 53752
 <211> 395
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-009-Q1-K1-H3

 <400> 53752

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 agaaaaagg aaatttttaa aaaaaaaaa aaaaaaaaa aaaaaaaaa aaaaaaaaa 120
 aaaaaaaaa aaaaaaaaa aagggccccc cctttaaaaa aaccaaattt tacttcccct 180
 tcattccaaa ttaaaaattt tttaatatgg ccaccaaaat taaattaatt gccctttttt 240
 taaaaacttc taaactgaaa aaaccctgcc ttacccaaat taaatccctt taaaaaaat 300

ccccttttcc caaatttgat aaataacaaa aaacccccca ccatatcccc ttccaaaaat 360
 tttcccaccc ttaatttcaa aattaacccc ccctt 395

<210> 53753
 <211> 69
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-A1

<400> 53753

gaattccggt cgaccagctc cgacacgcgt acgattttcg ccactcaggt tcagaaaaaa 60
 aaagggcag 69

<210> 53754
 <211> 241
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-A10

<400> 53754

cgaattcccg ggtggacgca ctcgttcgat ttccgtccaa agcgtttccc cgaggagtat 60
 ctcgtagcta ccatgttgcg tatgcgctgg ggcttcaaga cgggagcatc gcatgccgag 120
 atggaccctg acgctcgagt ttattatctg cggtgaccaa ctgaccacaa aattgtctat 180
 ttttacgtgc tgaattcaac aaccaagtcg cattactaaa aagtattgaa cataaaaaact 240
 t 241

<210> 53755
 <211> 269
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-A8

<400> 53755

gcagcatgat gaaacatatt atggaacaaa atatatacct acggcagcac gcagcatgag 60
 gaaacatatt taaaaaattt ggggtgctcta ccacatgccc gtggaataaa acggatgtaa 120
 actcagtgca aaaaaaaaaa aaaataaaaa ataaaataaa aaaacaaaaa aaaaaataaa 180

acaacacaaa gaaaaaaaaa ctacaaaaaa gcaagcacia aaaaataaaa aaaaaggggc 240
ggccgtttta aaggatccaa gcttactta 269

<210> 53756
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-A9

<400> 53756

aattcccggg tcgagccacg cgtccgggtt cgttttgggtg ccgcagctgt ttaagatgga 60
ggatgtgagc atgggcatgt ggggtggagaa gttcaacagg acgcggcggg cgggtggagat 120
ccggcagcagc gtgcgggttct accagtcggg ctgctacaac ggctacttca cggcgcacta 180
ccagtccccg cagcacatga tctgcctgtg gcggaagctg cagtccggga gtgcccgggtg 240
ctgcaacgtc agatgacgca ttgcgagaga gagcctgatt ttgtactctt tcttgatcaa 300
agaggagaga aacagatggg ggtggacgac gggtcggcag cccgtaagcg cagctcttct 360
gcgatggaca cagctgacga cgaccggtta cgacggtggg tttgc 405

<210> 53757
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-B10

<400> 53757

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caacaacgag gctattattg ggcagggaac attcggatct gatgacaacc aggaggactc 120
aagcaacaca agttctgggtg tatcacttgg ggattacttt cttggtcctg ccttagacac 180
tctcttgagc cgtttgccgg agagtgcctt cagtcgttct ggcacaccgc ctgccaagaa 240
ggaagcagtc gccgcgtac caaccgtgaa catcgaggaa gcgttgggct gttcagtctg 300
tcttgaggat ttcgagatgg gaggagaagc gaagcagatg ccctgtcagc ataagttcca 360
ctcgactgc atactcccggt ggctggagct ccacagctct tgcccaatct 410

<210> 53758

<211> 375
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-010-Q1-K1-B12

 <400> 53758

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 ccaaacaagg ccttatgtga gaaagtgatt caaaataacc aggactatta gtggcttcgt 120
 gatataccaa tatgtgacaa aatagttgat gacacgagca tctaaatgga actcaatttc 180
 atgtgttgac tctttgttta cagtcacga gaggatgggtg acaatggcaa gcctgatatc 240
 aagttgggtg gtgagcagca cgccagtggc cgacgggggg ttgttccatc ataactcat 300
 tacagctgct gcaactgaca agcccaatgc atcttctctt ccatgttgga tcaacactct 360
 tgtaatgtat tatatt 375

<210> 53759
 <211> 241
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-010-Q1-K1-B4

 <400> 53759

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 gaggttgat tacagtgcac tgagtancga tctaaatgtg actcctgctg ggtcgctcgt 120
 ggtagaatgt attgcgcgaa gtcgtctact gcgatcaaga ggtactctcg gcctgtccag 180
 cgtacgtcat ggatgccgat cgcacatgc gcgtactcgc catcgatctc gggggggcgc 240
 g 241

<210> 53760
 <211> 468
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-010-Q1-K1-B9

 <400> 53760

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ccagatgtcc cagatcctag acaccggcgt cgagcgccac accctgtcgc tgctcatggc 120
gctttgcgac cgcgaggcca accccgaggc attggccgcc ctcgcccgcg agctctcctc 180
tgctgtccc ccaacctccg ccgcggttc ctccccgtg agcaacggcg ccgcgggggc 240
ggcctcggca attgcgcca cgttctcctc cggccttcgc cgtccctagg gtgctgctaa 300
aaagtctgaa tggaactggt gtagttttcc aagcaagaca agatctcgct gctggaatcg 360
ctggatgaaa aggattgcct ttacaattcc atgtgcgcgc tgctgtggtg gtgtggttcg 420
accacaaaac atgtggctgg gttcatagag ccacagaaat acacgcgc 468

<210> 53761
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-C10

<400> 53761

cggtccgga ttcccggggc gagccacgcg tccgtgtct ctctctttct cgcgctcgct 60
ttgcttctc gtcgaggtcc aagttcctgc ggtgatggcg accgaggtgg ctgagactcc 120
cgcgccgttg gcggaggcgg tccccgagac ccccgcgagg gcaccggcgg cggccgccc 180
cgaggcgaag cctaccaagg ccaagaaggc ctctgcgccc aagaagcgtg ccaacccgac 240
ccaccgccc tacgcccaga tgatctcgga ggctgtcacg tcgctcaagg agcggacggg 300
gtccagccag tacgcgatcg ccaagttcgt cgaggacaag cacaaggaca agtccccgcc 360
caacttccgc aagctcctgc tcggccagct caagaagctc gtcgacggct gcaagctcac 420
caaggtgaag aac 433

<210> 53762
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-C12

<400> 53762

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ttccggatcc ctgccggtgc tgtggccatg gcctaaaact tccaactgca gagcctgcac 120

ggcaagtcgc gcgtacgcgt ctacaccgtc tggcgccgcc cggccgcggc cgtgggctac 180
gctatcgcta actggaacgt caacgacagt atcgtctacg actgggtaac ctgatacacc 240
tacagcgaca actacatgca atttcaccac agattccatc atcaacaccg tgcattgtcaa 300
cagccaaaga gtgcacggaa gtggtgtcca tggctgaatt cgccacgatt cttggaaggc 360
atttcaccat cttgtaccct gacgtctcag aagccacggg gactatcgca gagcgccca 419

<210> 53763
<211> 185
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-C5

<400> 53763

gaattcccgg gtcgaccac tcgtccctct agacacccta aacaacatac tatactctct 60
caccaccata acttatccat tggctagtct tcactttacc tttctcatca ctcattacaa 120
attctaccct tactatacaa cccataccat tacaatattt aaaaccatac ttataacata 180
acaca 185

<210> 53764
<211> 128
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-C8

<400> 53764

aattcccggc tcgaccact cgtccgaaaa aaaaaaaaaa aaaaaaaaaa aaaaaattaa 60
aaaaaaaaaa aaaaaaaaaa aaaaaaaagt ataattaaaa aaaaaagtac ggccaatcta 120
aaagttcc 128

<210> 53765
<211> 444
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-010-Q1-K1-C9

<400> 53765

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gcccgtctaaa gagagtgggt gcaaaaatcg ctacgccgac cccaccta ggcaccgact 120
cgccgggggac agagagagac cgacgcgccg gcagatccca agctcaccgg agagggggaa 180
gagggcgacc gaaggcggcg atgggtttca tcatggactt cgcgggagaat atgatactcc 240
gtctgatgga ggacccggac aagcgcgacc aggttcggcg ggagcatgtc tacaagatga 300
aggagcgggtg cgagcgcact aaggcggcgt ggagcctncc tctgcgcccc tacggcttct 360
ggaccttcga ccgcttcaac tcgcagctct cctgggatcc ccagatcagc caggccggcg 420
gccgtccgga cccctacgat gacc 444

<210> 53766

<211> 112

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-D1

<400> 53766

ccattccttg tcgcccgtgt gcattctgat ccataaagg atcgaatgct agtccaacat 60
caacctacca ttgccgtcga taatgagatg acttgtgctt tctgttataa aa 112

<210> 53767

<211> 129

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-D2

<400> 53767

gtgttcttat gctaaatgtg tttctaattg ttggcacatt ttaaattgct tgttgtttag 60
gaatgggttaa aacccttgaa ggtctggtat ctgcttggag atgttaaaaa aaaatgactt 120
gtgctaact 129

<210> 53768

<211> 144

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-E2

<400> 53768

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caataatcta ccacggcctt caaaaacgtt ggagattatt aatgggtactg ctgtaagcct 120
gttaacaaag ttaatgcgta tgac 144

<210> 53769

<211> 288

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-E3

<400> 53769

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gcgattaacc gagtatcccc gatctaccgg caactgcata tctttgaagc atcacacagt 120
gccctgtgga tacggaagat ccagctcccc gtccttccga ggccaatgtc gccacgatca 180
gcagcatatt gctcatacta gcagctatac gctgtgaccc tgacaaaccg agcttcatct 240
cagccttatg acgacgtcta ctctaactaa ctggtgacct gagatccc 288

<210> 53770

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-E9

<400> 53770

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ctgaagatcc tgctataatg caaggggtta tgtctatggg gacggtcctc aactgaggt 120
caccagaaaa tgcagcacgt gcaatggaag aaggctatgg gacactggct atacagtcaa 180
tgcaaagggt cccctcctcc gtgcagactc agaagcaagc atgccttatg attcgcaatc 240
ttgttgcccc aaaccctgag aataggatcg tcctgcttaa tgatgggtgca taaaagctta 300
ttagaaaggc aatggcgctg cacagaagct gtaaagatgc tgcttcgtct gccttgaggg 360
acctgggcct cgacaactac aatgcataga caccagtgcac cagtcacacc atataaaatg 420

tgcgtcgagt tagtttggt

439

<210> 53771

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-F12

<400> 53771

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gcggatttgt ccaatattct ggcggtgcat tatctgagga ggccataaag gtgctaaatg 120

gaagccagtt gggaggtcat agcataaggc tctcatgggg ccgtagccct gcaaacaagc 180

agcctcagca agagcagagc caatggagcg gtggtggcta ttatgggtat cccaaggat 240

actatccata tggtatgct cgccccctc aagatcctgc catgtacgcc tacgcagcat 300

atccagggtg tggaaattac catcaacagg caccacagca gcccccgcca caacagtaat 360

gatgtcccgga gagtgatcat ttgcaagctg gtcgcaaagt 400

<210> 53772

<211> 286

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-010-Q1-K1-F3

<400> 53772

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ccatccacaa tagcctcata tcgaatctgt nagggtttct agactgccga ggaaaaagga 120

tccgtgcgcg gctgatctca ctactataag tatatcgcat tccgagagtt acaaggacaa 180

ctgctcgatg tccttatgtt tgctgcttgg taataccgat ctgttcgcta taatcatcga 240

tcagcgtgat gtgaaccact gtttacattg ctgcgtact aataaa 286

<210> 53773

<211> 78

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-G3

<400> 53773

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cacaaaaata caaataaa 78

<210> 53774

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-G4

<400> 53774

ttcccgttcg accgacgcgt ccgccaacgc ttccgcccac gcgtccgtcc actcttcctc 60
aggaaatggt ggaccatttc caggaacagt ggtgtctttc agcccatgga taactactgt 120
tgctgctgta gttgatgacc gcatatacaa gaatcattta aactacgaa atggaaaact 180
tctctctggg cttggagtat cacctgcaac acatgggaat atgtcgttca gcttgatttc 240
tgcagctgat gctctattgg gttcatctgc aaccaatttc agtgcattag attgccagaa 300
gcctgaacta ttgaataaca ggaaagtcca cgggagaatt ctcatgcgtt gctattcctt 360
caattacatt tctggacaac ttcaataaaa 390

<210> 53775

<211> 340

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-H11

<400> 53775

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aactagtaga tacaactaaa gttagtgatg tgggtgtctgc aattggaccc tccactagac 120
tgttcagtct acaaagtccc acgaaccctc gtaagcaaatt tactgacatt aatacaatct 180
cagagacagc gcattctcat ggtgctcttg atttggtgta caacatcatc atgtatacag 240
tgctctcccg tcctatataa ctgggaactg atatcgtaac tcactccgct accaaattta 300
tagccggaca tatagatctt attgctggaa ttattgcagt 340

<210> 53776
<211> 101
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-H3

<400> 53776

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aaaaaaaaaa aaaaaaaaaa aaaaaaagaa aatattttaa a 101

<210> 53777
<211> 201
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-010-Q1-K1-H7

<400> 53777

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gttcaagttt tccgtaacct tgtccaatca tgggcatggg ggtgtggcca ttttggaaaa 120
gtggccactt ttgtttatcc agccatttgt acaactggag gccatggttg attcaaagga 180
ccggccggtt ttttcttcg g 201

<210> 53778
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-A11

<400> 53778

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gggtagatgg ttcatatggg agaagagaac aggaaggctt attaaaatgc ttgcagggga 120
cggagctggt gtgaactgca tacagtctca tcccttcgac tgtgccgttg caacaagcgg 180
aatcgataac acaataaagc tatggacacc cgatgcaaatt gctacatcaa tggtttctgg 240
acctgaactt gatgtattga gtgcataga gaataatcag cagaagttat gtcggaaccg 300
tcactttgta ctatgcatga gttttcagaa ggtttcagat gtgcccagag ctgatttact 360

atcgctggag ctgcttgaag aaaagggtaa tacttggaag aatgatatca 410

<210> 53779
<211> 385
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-011-Q1-K1-A5

<400> 53779

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ttctcgtctg aaaatgtgtc ctaagcatgt cagcaagtaa ggatgttctc gcgcttgcct 120
cacttgaggt tgacctctca agcattgagc ctggaaccac ggtgacggtg aagtggcgtg 180
gcaagccggt cttcataagg cggaggacag aggatgatat caagttggcc aacagtgttg 240
acgtcgcatc cctccgncac ccagagcaag atgcagagcg cgtcaagaac cccgaatggc 300
tggtcgtcat tgnngtctgc actcacctgn gctgcatccc gctccctaata gcangagact 360
ntgggtggctg gttctgcccc tgcca 385

<210> 53780
<211> 215
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-C1

<400> 53780

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ggaaaaatga aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aggggcggtc cttttaaggt atccaagttt acttcccctt gttccaacg 180
tcataccttt tttttagggt cccctaaatt caatt 215

<210> 53781
<211> 294
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-G2

<400> 53781

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ctcatgcaaa ccgatgaatc tatctctgta tcatcgatct cggttgcttg ctagtccaga 120
ctccagacat ggctatatat atatagtctgg tgctaataaa taggagtata atcgtcatat 180
cgatcggttg cgtgtggaat gccaatcatg tgtgtaatct gttggcaaata acaaacctc 240
tgttcctccc aaaaaaaaaa aaaaaagaaa agaataataa aaccatataa agac 294

<210> 53782
<211> 308
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-G4

<400> 53782

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tagctggctc ccccggtgctt ccatcgaccc gcttcgcgct tcatgtttac tacttgcgat 120
actgttggtta cttgtgattg atgatgataa aagccacggc ctgtgttact actgctgtaa 180
caagtccgac agaagaacca tccaatgcag gccacgaag gggatccagg ctgcgccggc 240
ctagtactcg gcttagggag tttgtgtgag ttgtaattga gatataaggg aatattgatt 300
agggaataa 308

<210> 53783
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-H4

<400> 53783

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gaggcggacg cgcattcagt cgtgaacgcg cgcgcggacg acttcatcaa caagttcagg 120
cagcagctac agctgcagcg actgaactcg ctgctcaact acaaggagat gctcaaccgc 180
ggcggtgaca agcagtagcc ggagcgtgca aggcggaggg agaagggtag ctagctgtag 240
gatccaatcc aaaaccatac tgaaaaaaaa atcgatcttt ggtccatcaa ccactagacc 300
tcgagtgtgg attatgcagt gttgttctta ttagcatcgt tatgtaagaa tcgctatattt 360

ttcagcttgt taatttcaat tggtttgtgt tgctggc

397

<210> 53784

<211> 128

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-H6

<400> 53784

aaaaaaaaa aaaaaaaaaa aaaaaaaat aaaaaaaaaa aaaaaagact gccgctctag 60

gggatcctag cttacgtact cgtccatgct acgtcataac tcttctatag tgccacctaa 120

attcaata 128

<210> 53785

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-A5

<400> 53785

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gaagatggac acgaaattgg atgtgctcag tcatacgcaa agaacatggg actttatgga 120

caaagagcag gatgcctgag tattttgtgt gaggatgaga tgcaagcagt tgctgtcaag 180

agccaactgc aacagatcgc aagaccaatg tacagcaacc cacctgttca tgggtgactg 240

gttgtttcta taatcctcag tgatccagaa ttgaagagtt tgtgggttaa agaagtcaag 300

ggtatggctg atcgtatcat tggaatgcgg aaagcactta atgaaaatct tgaaaagcta 360

ggttcacctt tggcatggga tca 383

<210> 53786

<211> 131

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-C10

<400> 53786

aacaaacata acaacaaaac acgttttcaa tctaacacat atacaaaagg tccgcggctc 60

tagacgatcc acgcttacgt acgcctccat ggcacgtcat acatcttcta tactgtgacc 120
 taaattcaat t 131

<210> 53787
 <211> 296
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-C2

<400> 53787

ggtccggaat tcccggggcg acgccacgcg tccggacact ccgtagtctg taccccaagc 60
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 aagaaggggtg gtaagaaaaa gaccgtcgat cccttctcta agaaggactg gtatgacatc 180
 aaggcccat cggtcttcag tgtgcgcaac attgggaaga ctctcgtgtc caggacacag 240
 ggtaccagga ttgcctctga tggctctgaag cacagagtct ttgaggtttg tctagc 296

<210> 53788
 <211> 381
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-C3

<400> 53788

ggtccggaat tcccgggtgc gacgccacgc gtccgttcat actccagtac aattgagaag 60
 acatcccat ccccatcttc atctgcagca aggggggtcta gggctcttta tggaagcagg 120
 gccttctttt aagtttctaa tgcaaagtag tacactagct cgttactatc tcctacatac 180
 atatacatgg ttccagggtt atcagatatc ttctggcatg taatcacata ctttctgtct 240
 ccataatatg cttctaggac tcactcctgg tattgctatt agtggttatgc ttgttagaa 300
 gataataatt tcatctcata gtaatcccat gtactaatac atacccatga aatataatgt 360
 catgaaatca gttctgactc g 381

<210> 53789
 <211> 327
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-D3

<400> 53789

gggccggaat tcccggggcg acgccacgcg tccgtgccgt cttctcatct cgctccctc 60
tttgcgccgc cccagatcc ggcaccgcg gctggcgaa cccgcacccc acgcccgcag 120
gccgggaccg gtggcgccgc gccgggcagt aggagggaga ggaaggcgcg catggcgcg 180
ccgccggcga gggcccgggc cgactacgac taccttatca agcttcttct cattggggat 240
agcgggtgtg gcaagagttg cctcctgttg cggttctctg atggttcctt cactacaagc 300
tttattacca caattggtat tgacttt 327

<210> 53790

<211> 275

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-D9

<400> 53790

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gaagtggagg ctgatcatgt gcgtgtatgt gttggagcgc gcggatggtc tactaaatga 120
tcccaggatt gtttcatgat acttgttgtc atcacatgtt tgagcaatat tactacattg 180
ttgatctact agttccttac gatatttggt ttcgttcttg cctatgggtg atggaaaatg 240
ctattgtgct aactggaaaa aaataaaatt ataat 275

<210> 53791

<211> 321

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-E2

<400> 53791

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tcacttgctg ccgagctgaa gagaatgcgg aatgagaagt tgcgaaacga gttgagcaac 120
attgacatct gcgacgagga ccggatacaa gcagtactca acacattctt ggaagacctg 180
atgagcgatc ggctggaaga ggctgtgtgg cccgtgatgc taccagccta cagcctgtcg 240

aaaatggtca tcaatctgta caccaggatc atagccagga ggtatccgga gatgcgcac 300
aactgtgtgc gaactggatt t 321

<210> 53792
<211> 409
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-012-Q1-K1-E3

<400> 53792

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ccaaccaggc gctcctccgc cccaggctcg ggcgggcca ggacgagggtg ttctgcctgt 120
tcgaggggggt gctggacaac ctgggtcgtc tgagccagca gcacgggctg tcaagcaagg 180
gcgccaacga ggtgctcctc gtcacgagg cctacaagac gctgcgcgac cgcgcgcct 240
acccggccag cttcatgctc ggccagctca ccggctccta cgccttcgct ctcttcgaca 300
agtccaccaa ctccctgcta gtcgcatccg accccgaggg caaggtgccg ctcttctggg 360
gatcaccgnc gacngctgcg tcgccttctt cgacgacatc gacatgctc 409

<210> 53793
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-F10

<400> 53793

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agaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaggggcggc cgttttaaag gaccaagtt tacttcccct tccttgcaac ttcataactt 180
ttttttaggg tcacctaaat taaattcatt ggccgtcttt taacaacgct gtaactggaa 240
aaaccttggc tttaaccaat ttaatcgctt tgaagaaaat ccccttttcc ccagttggct 300
taataccaaa aaggcccga ccatcgctt ttccaaacag ttgcccaccc taaatggcaa 360
atggaacccc cctctgaacg gccattaaa ccccgcggtt tttggg 406

<210> 53794
<211> 180
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-F12

<400> 53794

aaaaaaaaa aaaaaaaaaa aaaataaaaa attaaaaaaaa aaaaaaaaaa aaaaaagaac 60
aaggaaaatt aaaaaaaaaa aaaaaaaaaa aaaaaaaggc cgtccgtttt acaggttcca 120
atcttccttc ctccagcatg caacgtctta cttcttctat agtgacacca aatttcaatt 180

<210> 53795
<211> 359
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-012-Q1-K1-F8

<400> 53795

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aatcgctgct gtccaaggcg gcggggcggg ccatcaaccc ggtgcacggc gcggtggggc 120
tgcttgggca cggggaactg gcacctctgc caggccgcg tgcacaccgt gctgcggggc 180
ggcgccatcg gcccgtgcc ggagcttggc gccgggacgg gccacctgta cgggcccccc 240
gncgncaccg acaagcgcg cggcggtggt tccaccttct ccacggcgaa gcgggcgcg 300
aaggccgncg ncggtgccgg ggcgccgcc gcggcgagg cggcggcgta ctgcgacct 359

<210> 53796
<211> 327
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-F9

<400> 53796

aattcccggg tcgaccacg cgtacgcca cgcgtccgcc aggtcatgtc atacctgacg 60
gctttcctga cgttcgatgg ggctctgaac gttgatgtga acgagttcca gaccatcctg 120
gtgccctacc ggaggatcca cttcatgctt tcgtactacg ctccactcat ttctgctgag 180

aaggcctagc acgagcagct gtccgtggct gaaatcacct acagcgctt cgagccattc 240
 tacatgatgg ccaagtgcta cccccgcat ggcaaggaca tggcatgctt gctcatgtac 300
 cgatgcgatg tggctcccaa ggacgtg 327

<210> 53797
 <211> 106
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-G1

<400> 53797

ggttcggaat tcccgggtcg acccacgct tcgcccacgc gtccgggtcc ccgagtacct 60
 aatgtgatat caagactcaa ttctcgaatg gaagatatat gtttgc 106

<210> 53798
 <211> 392
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-G10

<400> 53798

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 atcaatggag acagcagtgg ccggaattgc agcggggacg acaaggaggc gagggtgcca 120
 cttccctggg agctgctcca gccagtgatg aggggttcttg ggcactgctt gcttgccccg 180
 ctgaaccac ctgaggtgcg tgatgccgca gcagacgcag tgagggtcgt ctatgcccgt 240
 gcatgccacg atcttggtgc acaggcaatc ttagcatcac gaagcttgat tgagcttgac 300
 aagagcgcac gaaaggctgc caaggcagca gctgctgcgg cttctgggca aattgttgca 360
 gttggcactg ctggaagcaa tgcataagc tc 392

<210> 53799
 <211> 294
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-G12

<400> 53799

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 tgtgtgtggg gtgtcaatgt ttttaagggt ctcttgggtgt gtgtgtgtgt gtcattgttt 120
 ttaagggtgtc gccaaaggcg ccaaaaatca taggcgcctt gctcgcctag gcgtccagtc 180
 gataggccaa cgtcttatct cgacttatgc ttttaagaacc atggtttgtg tatgctacgt 240
 tgctactatg gattctttgc ctgctaggt ttggaataaa aaaaataaca ttac 294

<210> 53800
 <211> 381
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-G5

<400> 53800
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 tcaagaaagc aaaaggagaa gctcgcagat atggaggtag aagccaaaaa ggcagaagct 120
 gcgctgaggc gcaagatgca agttgagaag gcagagaaag aacagcaggc tgaagcgatg 180
 aggaagatac tgggaataga ttctgagaag aaaaaggaag agaagaagct gaaagaacga 240
 gaagagaggg aaaaacaggc aagattagaa gaatacatga aaaactgcgt ccagactgtc 300
 atgggcccaa ctgggactgt gattacattc cctgagagca tggggctttc gagtatattt 360
 aactccaaac ctgtcaacta t 381

<210> 53801
 <211> 151
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-G6

<400> 53801
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 atcccgaat gaacttttca tttaaaagg agaaaaagg ccctattccg ctgcttgatt 120
 cagactacca atttctgaaa attattttgc a 151

<210> 53802
 <211> 213

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-012-Q1-K1-G9

 <400> 53802

 gaaggaaggt gttccggatg gtctctacat gtagccaatc tattcatcat gccgaacaag 60
 ttacccgatt gtgtgtgtac tagcacatct cttcatcatg ggagatatgt taccacaata 120
 cttgttgcac actgtgctaa gtggtcagga gaaccttgta ttaattaatt atcctttcat 180
 tgtctcaaag taaaaatttc ccttgcgcta aaa 213

<210> 53803
 <211> 63
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-012-Q1-K1-H4

 <400> 53803

 aaaaaaaaaa aaaaaaaaaa aaaaaataaa aaaaaaaaaa aaaaaaaaaa aaaaaaggaa 60
 agg 63

<210> 53804
 <211> 198
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-012-Q1-K1-H5

 <400> 53804

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 ctttctagca tgagaacctg agctgtgagg tgtgtggtac aggattttcc tccgtcgctt 120
 cttctatctc cattcttact tggcttgctg agttgcccgg cgagcctgac gaatcgatct 180
 gagcagcacc ttgctggt 198

<210> 53805
 <211> 304
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-012-Q1-K1-H7

<400> 53805

cccacgcgtc cgcccacgcg tccgcccacg cgtccgaaaa aaaaaaaaaa aggaaagaaa 60

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaaa aaaaaaaaaa aagggggggc cgtttttaaag gatccaagtt tacgtacgcg 180

ggcatgcaac gtaaaagctt tttaataggg gcaccaaagt taaatgaacg ggccgtcggt 240

taaaaacgtc gggactggaa aaacctggg gttaccaaac taaatggctt agaagaaaat 300

cccc 304

<210> 53806

<211> 201

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-A11

<400> 53806

cggaattccc gggtcgtacc cacgcgtctc gccacgcgtg tccgaaaaaa aaaaaaaaat 60

taaataaaaa aaaaaaaaaa aaaaaaaaaa gagaaggaaa aaaaaaaaaa aaaaaagggc 120

ggacacttct agaggatcca cgcttactta cgcgtgcatg caacctcaaa gctttactat 180

agtgttacct aaattcaata t 201

<210> 53807

<211> 467

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-013-Q1-K1-A12

<400> 53807

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gcgcgggtgc tggagcagct gctcgacgac gcgccgttcc cgcgccggat gcgcttcctc 120

atgctgcgga gcctcccctt cgtgccgccg cctctgcccc cgccgccgcc gccgcacgcc 180

ctccacgtta ccacccgagt ctgattattg gctccatttt tctcaggggt ttcagcctac 240

tgcccgccat ggccgcccac ccactagcct gcgcttgaag cagctagtag tagatactgt 300

aggttgacca gtgatccacg gtgtgtttct cgcttttcctt ttgtctgttg atttctattg 360
gctatactac acggtgctgt aaaggatcaa ttagttctgc ctttgaggcc ctcatttggg 420
ggtaatatatt ttgattacat ggaccatgga aaaaacttnt ccttgac 467

<210> 53808
<211> 63
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-A4

<400> 53808

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gtg 63

<210> 53809
<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-B1

<400> 53809

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cgggatcagc ggcgcgccgc acgacaacaa catcatgctc tggaacgccg tcatattcgg 120
gccggatgat acgccgtggg acggtggcac gttcaagctt accttgcagt ttacagaaga 180
ttacccaaac aagccaccaa ctgttcgatt tgtctctagg atgtttcatc caaatatata 240
tgctgatgga agcatctgtt tggatatcct acagaaccag tggagtccta tatatgatgt 300
tgctgcaatt ttaacttcta tccagtcctt gctgtgtgat ccaaaccxaa actcccctgc 360
aaactcagaa gcagcaagac tgttcagcga gaacaaagcg gagtacaacc gcaaagtccg 420
tgagatcgtg gagcagagct ggaca 445

<210> 53810
<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-C10

<400> 53810

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cgcaagggtga gcgatgcggc ggcggcgggc ggcgaggtgg aggagaacat ggcggcgtgg 180

ctggttgcca agaacaccct caagatcatg cccttcaagc tcccgcccggt cggcccttat 240

gatgtccgcg tgcgcagtga ggcagtgggg atttgccgca gcgatgtgca ctacctcaag 300

gagatgcgca tcgcgcactt cgtggtgaaa gaaccgatgg tgatcgggca cgagtgcgcg 360

ggcgtggt 368

<210> 53811

<211> 190

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-C4

<400> 53811

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aaggtttatt atccaagctt acaaacacaa tcatgcaaca tgctatctac ttccatatac 120

tcacctaaat ccaaattact gtccgttgat ttacaacttc aaacctggga aaaccctatc 180

cttaccacaac 190

<210> 53812

<211> 236

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-D11

<400> 53812

ggaggatggt gaccaggagg atcggaagaa gaagaagaaa aagaacaagg aaagcaagga 60

ggctcctgct ggtgaagggtg atggtgagaa gaaaaagaaa aagaagtcta aggaggtcga 120

ggaagagcct gttgtggctg ctgcttcaga agttaagaag aagaaaaaga agtctgacgc 180

tgatggtgag gatgtcgcaa tgcaaaccga agaatacagg aagaagaga agaaaa 236

<210> 53813

<211> 305
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-013-Q1-K1-E10

 <400> 53813

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 aggatcggcc tggggagcca ccaggaggtg taccacccgg gcgccctcaa ggcggcggttc 120
 gctgagttca tctccaccct catcttcgtc ttcgccggcc agggctccgg catggccttc 180
 agcaagctga ccggcggcgg cccgacgacc ccggcggggc tgatcgcggc ggcggtggcg 240
 cacgcgttcg cgctgttcgt ggcggtgtcg gtgggcgcga acatctncgg cgggcacgtg 300
 aaccc 305

<210> 53814
 <211> 303
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-013-Q1-K1-E6

 <400> 53814

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 agtttgaggg acgaattcta cacggtttac ttcaacgtca gggctctgagt cctgacgctt 120
 acacttgcag tagaagtaat acagaataaa taatgtgogc gacctttttc ttctcataca 180
 ctgtagctta gaacagccaa tgaagaagca attgggttgt ttgaacttgt tatgcacgcg 240
 ggagtattca ctttgtgtga aaccacttgt tatgcaatac caaacgagtc ctggctgcta 300
 aaa 303

<210> 53815
 <211> 321
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-013-Q1-K1-E8

 <400> 53815

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tcctgcacta gcagcttgcg cgccatgcag taacggcggg cgtgtgggtt attacaaagg 120
gcaaagtcaa atcgagttgc tcaaactcaa tactcctact agtaaaagta atgatgagat 180
agatttgata gatgggtact cgaatatgct acagtacaat taatgcatct caggcgatca 240
agcagtaatt aaaccgaaat taatttaagc atccccctctt tgatcgaaaa acagaatatg 300
atgatataaa aaaaaagaat g 321

<210> 53816
<211> 81
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-F7

<400> 53816
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gaaaaaaaaa aaaaaaaaag a 81

<210> 53817
<211> 66
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-H12

<400> 53817
aagaaaaaaa aaaaaaaaaa aaaaaattta aaattaaaaa aaaaaaaaaa aaaaaaaaga 60
aaaagt 66

<210> 53818
<211> 355
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-H4

<400> 53818
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ggagcccggg ttgccgacca ggttcaccg ttccagagta gccaaagcgaa tcccgtgtct 120
ggttcgcgcg atggcggagg agcagtccaa cccccagcac cagcaagcgg aggagaggga 180

ggttatggtg gagcagcagc agccgaggag ggccccgaag ctgaggtacc tggacttcgt 240
ccaggtggcg gctgccagg ccgcggtgtg cctcgctggg ctctacggcc tcgccaagga 300
ccacgccggc ccgctccgtc ccagcgttga cgccgtcgag tctgccgtca agggc 355

<210> 53819

<211> 473

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-013-Q1-K1-H8

<400> 53819

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ctgggttaga tgaagatcag tcctcaaccg gtaagagtgg ggactcatca ttttttgcgt 180
gtttcttgaa gaagggtttc aaggaccttt ctttattaaa taagtccatg gatagcggtta 240
aggtttcaat taatggatcat ccaatctctg aaagagccct taagaaggca gagaagaaag 300
ctggtcctgt tgaccaggt tcatattggt acgactaccg tgctgggttt tggggtgtca 360
tgggacgaga atgtatcggc attgtccctc catttattag agaatntaat tatccgatgg 420
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<210> 53820

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-A11

<400> 53820

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gtggaggggtc accggcgggt agagatagca ggctatgcct gagcaciaat gtttgatata 120
atccgtccca cgatagcaag aaaatgatac gcgatttctg agcaciaaact ttgactca 180
gatgatcgtg caaacagtta gcattttaag aaaaatgttg cagttcaatg taactgcagg 240
aatgtctctg atgtagcctc ttcgatgtgg cagcettaac aatcgatgtg ctacagttac 300

tctgcctatg tatttactat actaccttgg ccttgtatat ccttttgatg taagcgcagc 360
 tggatgctga acccccgcga ggctgttagg gacaattaca aaccgtcata atttggccca 420
 gata 424

<210> 53821
 <211> 424
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-014-Q1-K1-B10

<400> 53821
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 ngcggatgatg aagagcagca caatcgtcgc gcttctgttg gctgttgcca ttctgtcctc 120
 gctgtctcca tgctacgaag ccggcggttg catcgggaaa cccaagaagt caccgccgcc 180
 gccgagaagg ccatacctct cgtcctattc cgaggaccac cagaactgcc gcttgatctg 240
 tagctcgaag ggtttcaagg acggtggctg gtgtgacgaa agcgtcgagc acaaagtgtg 300
 ctgtgtctcc cattagaaat ataatatcgt atgttatgtt gatgcatata tatgcattat 360
 ccatctacct ggggtggtgca aaattctgaa ataaatctac ctgtgtggtg caaaattctt 420
 aacc 424

<210> 53822
 <211> 247
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-B9

<400> 53822
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 aaagactgcc gatctataag catccaaact tacatatcgc gtccatcaa cattcataat 120
 atattcaatc gagaaacact aaatcaaata cgattggcac gtcattttac aacgcacgca 180
 ctggcgaaaa ccaactggcag tatacccgaa cttacattgc ctttcaccac tattccccctt 240
 tcgccag 247

<210> 53823
 <211> 280
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-014-Q1-K1-E12

 <400> 53823

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 cacctaaatc tgcggcccg ctagagaaga tacgatctct atgcagatta gctgcagcga 120
 tatatataga tggatgaatc gtgcaagcgg ttgaactatg gtgctggaat ctgtaatata 180
 tataagcgga tcatccaaag tgcaaacat ataagttttg cattgccaaa aaaaaaaaaat 240
 taaaaaaaaa aaatattaaa taataaaaat aaaataaaaa 280

<210> 53824
 <211> 378
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-014-Q1-K1-F10

 <400> 53824

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 acttgtgcta ggaaaccttg ctgcctactc tcagcaacag cagtttcttc cattcaacca 120
 actggctgca ttgaactctg ctgcttattt gcaacaacaa ctaccattca gtcagctagc 180
 tgctgcctac cccagcaat ttcttcatt caaccaactg gcagcattga actctgctgc 240
 ttatttaciaa cagcaacagc taccaccatt cagccagcta gctgatgtga gccctgttgc 300
 cttcttgaca caacaacagt tgttgccgat ctacctgcac gctgcgcta aagcttgcac 360
 ccttttaciaa ctgcaaca 378

<210> 53825
 <211> 418
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-014-Q1-K1-H10

 <400> 53825

 tccggttcgg aattcccggc tcgaccacg cgttcgccac gcgtccggtc ctacgcgacg 60

gtccggggccc aagttctctg gaaagggacg cctgggaggg tgagagcccc gtccggggccc 120
gccctgtcgc accacgaggg gccgtcaacg agtcggggttg tttgggaatg caccctaaatc 180
gggcggtaaa ctccgtccaa ggctaaatac agacgaggag acactctaaa ctcaaacaaa 240
tacatatatt gtcggcatta gctcttacc ttttcaccca tgatgacgaa gtgccagaag 300
cgcgcgagca tccaaggact ttggctcctt tccatgggtc ttctagcgtc gtcctctctt 360
gtctgtgcaa gcatggcggt agatgggcaa accaaagaag acatcaacgc aacgagtg 418

<210> 53826

<211> 253

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-A5

<400> 53826

taccggttcg gaattcccg ctcgacgcca cgcgtcccg cagaggcagc aaagagaagc 60
catattacag ctgcacagga gaggacgagc gcaggggcca agaaagcacc gcccgctcccg 120
gtctgtcggg atgggtggcg cgatcgcggt ggcgtcgcg gggctcggga tgctggcggg 180
cgtggccatg gccaacaggt cgttgctcgtc gtcgtcgtgc gacggcgccg cgcagtggac 240
gtccggggggc ccg 253

<210> 53827

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-C10

<400> 53827

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cttttctca tcggtatcta gggaccccg taaacatagt gtttgatggc accattcctc 120
tactaaatgg gggtgaggca ttgaaggaac aagtggccat ggatccctgg cgggtctccc 180
agtcccatth gacgatgacc acatcttctt catctctaga ctcaagctca ccagaatcaa 240
tgaagcggat gcgggaaagt ggggatgaaa ttccaatcac aagggaact gattgcctac 300
aaagtggaaa gctctgtgtg cagctgaaaa tgttcaagca cagagatgga gtgaatgccg 360

acgcaactaa tgccattttt cgctgacgaa aacaaaactt cgcttggctt tcatattgta 420
 caaagtaaca aagaaacatg acttgtttgc 450

<210> 53828
 <211> 148
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-015-Q1-K1-C12

<400> 53828

taccggctct cggaattccc gggctcgacg ccacgcccga tccgaattgg ggatagccta 60
 ccaagctnnt gtatgcaagt ctttgcgcat tagnatnngg gaagaaaaag ggggaagtcag 120
 gggggcaatg cgacagcann natctgga 148

<210> 53829
 <211> 428
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-015-Q1-K1-C3

<400> 53829

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 tctatcaact ctcttgggna ggggcccaag tgacagggag actgtagtct tgagattcaa 120
 ggccaatgca gatgcctgca ctactaaaag gcgaacttaa ataggatact cttgcatact 180
 cacaactggg cagcctcctg gataagaaat caacgtagat acctgactcg tgactacctt 240
 catgagncgc gaaagaagca aaggagtatg gccttattga tggagtaatc atgaatcccc 300
 tcaaggccct tcaaccactt ccagcttcca gttagtcatg aagtgtgcta gaactccgtc 360
 aaacattttt gttgtatcaa tgtgtctgtt ggaaaccctg gctacgtaat attctacgtn 420
 caaatgca 428

<210> 53830
 <211> 420
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-D11

<400> 53830

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tcttgcacct ggcgccgaat cggttctccc acctctatcc gaagatgagc agtggaatct 120
gtacaaatgg attctggaag aggagcggaa gatcaaacca ccaacgccac tgagaagaag 180
aagatcgacg aggagaaagc tcttctcaag gagataattc gggacaaatc tctccctcgt 240
ttgtgatggt tacatcggct gtccttctga tcttgatttt ttttcttctc tctccacctg 300
cagtccattg aggacaacat ctgaaactat gtgccctggt agtttagcaa accgttagca 360
tttctttgca ctatcacatc tcttcatttg acaataagaa ggtcgagttg ttttgctctg 420

<210> 53831

<211> 70

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-D12

<400> 53831

aaaaaaaaa aaaaaaaaaa aaaaaaatTT aaaaaaaaaa aaaaaaaaaa aaaaaaaaag 60
aaaaaaaagga 70

<210> 53832

<211> 298

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-E1

<400> 53832

cgaattcccg gtcgccacg cgtccggtgc tttgaagcat tgcttctacc atctacttta 60
aggatgagct ttatctgaac gtattggtcg aatatgtgcc ctagacagtt catccagtcg 120
tgaagcatca caacaagatg aaccaacgca tgccacttat ttatgtgaag ctgtatatgt 180
accatatatg tatggcattt gcttacattc atggcactat tgctgactgc cacagagata 240
ttaagccaca aaaccttttg gtgaaccac acatctacca gcttaaacta tgtgactt 298

<210> 53833
 <211> 126
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-E11

<400> 53833

ggcgtgtcta tgcacacgca aacgcactta caagggcgag acgctctatg aggatccaag 60
 cgttacgtag cgcacatgac acgacgatga tagcctcttc tatcagtgac aactaaatt 120
 caatat 126

<210> 53834
 <211> 254
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-E12

<400> 53834

accggcccgg aattccgggt cggccacgag tcggcagcgc tcgtctcgcg ccacgccttc 60
 tcagctaact gggagcactg ggggaggaca tcgagccggc tcgctgacct cggcgtgacc 120
 gaccgcgcgcg tcgcgcgaggc ggcgcggatc ctccgcctga ccccggtgcg cggctgggtcc 180
 gctcgagtgc tccggggggcg actggcggca tcgcacccgc atttgccaa caccaagtcc 240
 tggcgtatcg tacc 254

<210> 53835
 <211> 280
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-E5

<400> 53835

taccggtctc gaattcccgc ctcgagccac gcagtcgcga cacgtattgc tactatcgtc 60
 tactttctac atcttttagct taccacttat gacatagtca catttataga cttgtcatcg 120
 gttacaattc acatactaga atcatgttag ctctactacc tattcttggt aaataattct 180
 gacccctttc tacacataat catcacttct gagttctata ctgttacaat gttcgtatac 240
 gctaaattca ctttattcac atataatttc cctaaacttt 280

<210> 53836
<211> 157
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-E9

<400> 53836

ttgttttttt tgtttttttt tttttttttt tttttttttt tttttttttt ttttttttta 60
aaaaaaaaaa aaaagggccg cccttttaaa ggatccaagc ttacctacc gtgcattcaa 120
cgtcatagct tttttatagg ggcacctaaa ttcaatt 157

<210> 53837
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-H10

<400> 53837

tccggatcga cccacgcgtg cgcggacgcg tgggcggacg cgtgggctgt ctccagttga 60
cagcaccatc cagacgatgg atgcgtgagc ttatgggcgt aagacctggc tcaaggctcc 120
tacataccag acagacaatg tgccgtatgt gtcagatgaa cctcaaagcg ataagtgggc 180
tagggttcta tcagatgcca cattcgacgt accaacgaat cctgacatcc tacttaatgc 240
gttcgactca gctgcaaacg ttcaaccgga gaaggtaaca gacatatgga atctcaggag 300
aataactaac acgtcttggc ataccatcaa aatccagaga tcttcgtgcg tcgaacgatac 360
taagctgtga aattaagtac gcacttgacc acttggataa agcacactta c 411

<210> 53838
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-H3

<400> 53838

ggaattcccg gcgttctcac ccccttgcaa gcaacaatcg ttcaccgatc gatccagtgc 60
gtcctgcatg gaaactgccg ccgtggccgc ctccagtgcc gggcgccgca tcatgggtggc 120

cgtggacgag ggcgaggaga gcctgcacgc gctcaactgg tgccctcgcca acgtcgtctc 180
 cccggcagga ggcgacacgc tgggtgctcgt ccacgcccgc cgcccgcgcc cgggtctacgc 240
 cgccatggac agcgcagggg acatgatgac ctccggacgtg ctggcgagcg ttgagaggca 300
 cgccaacgcg gtctcggcgg cggcggtcga caaggccaag cgcgtctgcg ccgaccaccc 360
 gcacgtcaag gtggagacga cgggtggagag cggtgacccg cgggacgtca tctgcgacgc 420
 agccaacaag at 432

<210> 53839
 <211> 54
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-H7

<400> 53839

accggttctc aattcccgt cgaccactc gtcccaaaaa aaaactataa caaa 54

<210> 53840
 <211> 407
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-A10

<400> 53840

accggtttcg gaattcccgg cgggagccac gcgtccgatt acctcttcac tagctccaga 60
 gggatatgga agcttgatca tctttcctta tggcgcgat caatagcatc acaatcaccg 120
 cgcttctatt gtctgatgcc attctgtcct cactgtctac atgctacgaa gccggcgtct 180
 gcatcacgaa acccaagatg tcaccgccgt ctccgagaag gccatacttc tcgtcctatt 240
 ccgaggacca ccagaactgc ctcttgatct gtacctccac gggctctcaag gacggtagct 300
 gatgtaacta aagcgtgtag cacaaaatga gctgctcgat ccattagata tataatagcc 360
 tatgatacgt agatgcatat atatatgcat cgtccatcta catgagt 407

<210> 53841
 <211> 173
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-A11

<400> 53841

cacgcgtccg aaaaaaaaaa aaaaaaaaga aaaaaattaa aaaaataaaa aaaaaaaaaa 60
aggaaaaaga aaaaaaaaaa aaaaaaaaaa gggccgccgt tctagagggt ccaagcttac 120
gtacccctgc atgcaacctc atagctcttt tattgggaca cctaaattca att 173

<210> 53842

<211> 238

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-016-Q1-K1-A9

<400> 53842

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tctacttaaa aggggacggg ggagcacctt agatgggtcg aacgggaaac atttctctggc 120
agtttgacaa attgtagttc tgcaccctct ttttttttgg tagtttataa gaaacacttt 180
aatattatcat catgtacttt taacaacact tgggggtatgg taagtgcatt tggtgctg 238

<210> 53843

<211> 142

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-B1

<400> 53843

aaaaaaaaat aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aggtcggacg atatagagga 60
tcggagctat catacgcgtg cgtgcataca tcatagtctt tctaataagag tcacctaaat 120
ataactcact gaccttaaat gc 142

<210> 53844

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-B10

<400> 53844

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ccgtggccaa tgcaaacaat tgttttgtgg gagcgggcggc cgtaaagttg ttgtcagtgt 120

gagagtgggtg atgcgatcat gatccttttt acctagagta gctccccttt gtgttagcct 180

gaacgatgtt ttgcaagccg aatgttccga actctaggat tatttggtt acaaaactta 240

catattccat cctcaaaaaa aaaatagaat atgaaaaaat aaaacaaaca ttgggcaatc 300

gttctagagg atccaaacta tcctacgcgt ttatgtctaca tcatagctct tctatgggggt 360

cacataaatt aaatttactg gccattgctt t 391

<210> 53845

<211> 408

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-016-Q1-K1-B11

<400> 53845

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agcgagtttc aagagttgta cacataagat ggcaacagag cagttattca aacagataag 120

aacagtagca ggcaggagta caattgtaca agtactagta acaaaaaaaaa acgatctgtg 180

acaaagacca aattgattga ttcattcataa tttcggtagg ccgcaactta ttttgagaca 240

ccgtcgacat caagtaggtg cagtaactct tagtcctaac tccagcttac ttcttcatct 300

ccgcagaggc tcggctgcat aagctgatct ttccctcatg cagcagcttt cgacgcaatc 360

attcctgtct tccgggcgta ggcaaagatc cctcccgnc t caattaca 408

<210> 53846

<211> 329

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-B3

<400> 53846

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cagtaaagcg aaactgagtg gaatgtcagc aatcaaagaa catccggtag cggcctttca 120

tctcaccaga ttagagctgc aacccttcaa tgttgtactt gtctgaatg tggtaaggtt 180
 caattacgcc cgctgtgaaa cagaacggaa cagagcagat ttaccgcga ttgctagcta 240
 gagtgatttg gcatgatgta ctcatcatat gtctgaagat ttactggga aaaaaagtac 300
 aaacttttcc ggtggaaaag aacctaataa 329

<210> 53847
 <211> 392
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-B5

<400> 53847

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 actatctcta cgtccttatg gaagctgggt caggtaaact catagctgcg ttgaacagca 120
 gcacattcca cgagctgctc acatctgatg gcattctatc cttactgtat acatgctaca 180
 acaccagcat gtgcatcttc aaaaccccag aatctacctt caacaccgag aaagctatac 240
 ttatcacctt atttctaggt ccatcataac tgccgcttga cctaactcat ttagagacac 300
 aatgaccatc aattatgtgc cgaaactctt aatcataact ccagctgact ttttcattaa 360
 caatattatt tcgtttctta agctgacccg ta 392

<210> 53848
 <211> 277
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-B9

<400> 53848

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 agaaaaaaaa aaaaaggcaa ataatatagg gaaaaggaaa attaaatagc cgagcattcc 120
 acaacatctc gtgctctatt gtgttaccgt aaattgaatc aactggccg tcatgttaca 180
 acgactacta ctgcgaaatc cttgacatga cccaaattca tcgcctggac acaaattccg 240
 atgcttatat ctgtcgtaat gtcaatgatg ctggaat 277

<210> 53849
 <211> 65
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-016-Q1-K1-C1

 <400> 53849

 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaagga 60

 aaagg 65

<210> 53850
 <211> 277
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-016-Q1-K1-C6

 <400> 53850

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 aatagcttaa ttatgaacca acctataaat acatttatct ttttagaaca aaacaaaatt 120

 acatacacat aaatgtcatc ctatatctat tatataagct cacctaaact taatttattg 180

 tccatatttt tacaacattt ttacttgaat atccttgact ttaccaaatt taatatcttt 240

 tcacatatta atctttttta catttttaatt tatattt 277

<210> 53851
 <211> 52
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-016-Q1-K1-E1

 <400> 53851

 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aa 52

<210> 53852
 <211> 456
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-016-Q1-K1-F12

 <400> 53852

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 ccgagagagg gaccgggag aatcccacgg ctcggaacga cttcgagttg gcatgggttg 120
 tgcgcgcagg catcggtga catcacatag acaatgctga aatgctgttg ctagtgctct 180
 gtgctagcaa cctgaatggt gaccaagtgg caaccatatg ttttcacca ataggagat 240
 ggccctaccg gtgtcaccgg aagacgtctc tggatctaca agcctggcct tcatgggtta 300
 catgtacatg cactgggaga caccaccaat ggatgcatgt caacttgacc aactacact 360
 actgctagca atgagcatcc ggcaccatac gatgagaacc gccatgctgg tgatcatggc 420
 aacgagacag cttgagcata tggagctgct tgtatc 456

<210> 53853

<211> 310

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-G3

<400> 53853

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 acacgtcaac tcttacatat atatatgtat gtatgcataa tgaattacct ggtctgcttt 120
 ccgcaaaaaa ggacgccctt tgttgatcat gtacatgatg ctgtaccctt agttttcctg 180
 aagtgcagac cagagaagag aacattgaca ttagattgta gctgctaagc tgtatggtaa 240
 ttacagtttt ctttaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaataaaa 300
 aataataaaa 310

<210> 53854

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-H1

<400> 53854

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 ggctgggtcc gcgctggtgg agtactacga ccaccagcaa gggtcaggat cgaaagttca 120
 ccaatatgca aagcagttcc tttcatctga tagcaatagc ggccaacaaa aggagtagct 180

agccagtgtc cttgcgaagt gcaagcagcg gagtgggctg tatttcctga tcaaataatt 240
 ttgcctatgg cacattctgt ggaaactttg acggatcttt gcctgctttt ctatgcgatg 300
 taagctgctg aaacctgcac tcatcaaatg ttgtgtatgc agatgggtacc atgcatttgt 360
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<210> 53855
 <211> 285
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-A3

<400> 53855

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 gcccgccgcg cgccccaagg ccgaccatc ccccaacctc ttcgtctccg gcttaagcaa 180
 gcgtaccaca agtgaaggac ttagagaagc ctttgccggag tttggtgaag ttttgcgatg 240
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<210> 53856
 <211> 294
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-A4

<400> 53856

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 tttctgctc cagccctgca aagccacata cgtcaatcag aacttctcgc agcagggtgct 180
 gctccgcaat ggtgagaagg tcacgttcga cgagcctaac ccgtttgcca ctgaagggga 240
 ggaagctgct tccgttgctt accgctaccg tcgctggaag cttgatgagg agac 294

<210> 53857
 <211> 473
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-A5

<400> 53857

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cggctcgtta tgttcccttt ctggatccta agaagcacia gctatgaagt gctgctgacc 180
ttggataggg agaagcatcg attttatggc cccatatact actatgtttt caactgtctt 240
ctgttctcac tcctagttct tcacatatac tgggtgggtac tgatatggcg gatgctagtt 300
aaacagattc aatcgaaagg gcgtgttggg gatgatgttc gatccgattc tgaaggcgaa 360
gatgagcatt gagattaact ttttaggttg aatgattaac ttgagaacta cattgtgtga 420
tacctgcagc aaggcacacc ttctgaacct ttttttttcc ttttacagaa gat 473

<210> 53858

<211> 313

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-A6

<400> 53858

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ttctgcctcc agccctgcac tagaggctgc gatggcagct gctgtcaagg tggctgacgc 180
ggaggcaaaa gcacatgatg cgcacatgatc gacgatggag gcagaaagga tcttcaagat 240
ggccgaggat accgagtctc tcctcataat tgcagcagag atctatgac gatgttcaag 300
gggagagata acc 313

<210> 53859

<211> 278

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-B1

<400> 53859

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cattgaggac aaggacacga tcattgagat aacgggggtc caaaacttgg gcaagtcatt 120
atctacacaa cattgtgaca cgcgcagcga tagatcatca tcgcgcgggt ctagacttta 180
ctggcatgag ttcattgcga ccaaccagtc tttttgagag tattgagacg cttgcatagg 240
ctgtcgagcg attaacagag aaaaggctat atatctct 278

<210> 53860
<211> 137
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-D6

<400> 53860

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gattggcaac cgctcgt 137

<210> 53861
<211> 263
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-E12

<400> 53861

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tcagtcacct gcgccgccgc cacgttcggg gggggcctcc aatacgggga gttcaattga 120
ccgacctcgt tcttctggac aaggtctact aacgtattaa catttccgcc gtcaacaatg 180
actcttcggt cacacactat gatatttttc aacacaatgc tattttcgct cacttgcagc 240
actttactat ctatgaccag ttg 263

<210> 53862
<211> 62
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-E5

<400> 53862

aaaaaaaaa aaaaaataca aaaaaaaaaa aaaaaaaaaa aacaaaaaaa aaaagaaagg 60
at 62

<210> 53863
<211> 335
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-F11

<400> 53863

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aaaaaaaaa tctaataaat acaggttggg tactaacatc aagaaagaca catcacatat 120
aagatcatct gactaaactt gagtggcccg ttcttaataa cccaagctac tgttaaatct 180
cttccaagac caaacttttt caccatccac ctcatatctc attacaccgg cgatcttttc 240
aaacctaagt tccttaaaaa accctatcgt ttccaatttt accactttta tgataaatgc 300
tattttcctt gtgtgccac attaaacata ggccc 335

<210> 53864
<211> 284
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-F3

<400> 53864

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aaggaaaaca atcctgaaac caagccatgg gtctggggga ggaatttgag gagcatgctg 120
agaaggcaaa gaccttgctt gagagcacga gcaatgagaa caagctgac ctctacgggc 180
tctacaagca agccacgggt ggagatgtga ataccgatcg tacgttcata ttctaccata 240
aggacatggc caaatgggat gcctttaatg ctgttgaatg caaa 284

<210> 53865
<211> 289
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-F9

<400> 53865

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tgtcttcaca actgacgacg tgtgtgtggt acgcaccacg cacgcaagtc gcggttgtgc 180

gtgtacgtct gaactctgga gcattggttt gttgtaccaa cataatgagt cacaacggcg 240

gatggctggc tatacgtaaa aaaaaaaaaa aaaacgtaca ataaatttt 289

<210> 53866

<211> 265

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-G3

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accctcacca cctcgatctt cctctacatt gccattctca ccgccacagt cgtctccaag 180

tccacctcca actgcgccac cgatggcatc catggcatcg cctggtcctt catctgcatg 240

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<210> 53867

<211> 487

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-H4

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tcgaggtacg atgtacctgg cactcgagta tcatggatga gactgttggg cgtctattca 120

aaagtggact aggtagattc gggcttggac agtctaaacc agccttcggt gatcaatctg 180

ttcttatcat ttttgttctt ggaggtatta atactcttga ggtccgggaa gtcatgacag 240

cgatatcgga gagcagcaga ccagatgtgg agcttattct ggggtgggaca acccttctta 300

ccccagacga catgtttgag ttgatgttgg gatcgtcaag ctttgcttag gctcaacctt 360

cactcttgag tcatgtgcgg gacttggaaa gaaatcggag cataatcttt tcttattctt 420
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 aagaaag 487

<210> 53868
 <211> 312
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-018-Q1-K1-C10

<400> 53868

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 attagtggca taactcctga tatcatgggtg aagatgtggc ccaaaaatat gtattgtcta 180
 taaaacaatc cttctcaaca ttttggtagt ccccatgtga aacattttac aggtccctgg 240
 aaacttaaaa gtcaattaac ttttatgttg gagcttttca agaaaacat tttgctaaaa 300
 tgcattatca aa 312

<210> 53869
 <211> 312
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-018-Q1-K1-D11

<400> 53869

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 gacacctggt tcgtgagatg ggttgtcaaa cttgattggt ttgttgtgcg tggctggaag 180
 agctgatagt tatatatttg gcttggactg tgccgcttgt atgtatctga attctgaaag 240
 cgttgtaatc tgagcatccg tgcaaagtat gaatggccct tttatatggg ctggattttc 300
 cggtttctaa aa 312

<210> 53870
 <211> 158

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-018-Q1-K1-E9
 <400> 53870
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 aaaaaaaaaa aaaagggagc actttttaaa agataaaagc ttaggaacac ccaaattaaa 120
 cagcttggtt tttttatagg gttacctaaa ttcaatta 158

<210> 53871
 <211> 366
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-018-Q1-K1-G9
 <400> 53871
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 caaagttttg tttgtgattt tggtcccggtg ctatccaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaaaaaa aaaaaaaaaa gggtaaactg tataaaggat ccaaccttaa gcaaccaat 240
 tatgcaactg aataaatctt ttttactggc accaaaatca aattaattgg ccgtgggttta 300
 acaacatcta aactggaaaa accctggtgt taccaaacta aatacgcttg cactaaatgc 360
 cctttt 366

<210> 53872
 <211> 197
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-019-Q1-K1-A8
 <400> 53872
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 agaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaggg gcggccggtt 120
 taaaggatcc aagtttactt ccccggtgctt gcaacttcac agcttttcta tagggtcacc 180
 taaattcatt tcattgc 197

<210> 53873
 <211> 378
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-B1

<400> 53873

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acatagtaac tctgcagaac ctaatgacag gaggcaagta ctgaaagatg gccagagggc  180
ccttgaaggt gacagcgcat actgaagata tcccagcaag gtccagttaa ttgtccttat  240
taaggacatg aagatcattt ttttttcggt cctgatgttc tcagataatt attgtattgc  300
tgacaacata tctttgattt gtgaatatac taaacatggt gcctaaaaaa aacaaggga   360
caatgaataa gaaccaa                                   378
  
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<210> 53874
 <211> 462
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-B5

<400> 53874

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aatctagacc ctcttgggca attctctgat caacaaatat gggagggttct aggcaaatgt  180
cagcttcttg aagctgtcca ggagaaggag cagggattgg actcacttgt tgtggaagat  240
ggttcgaact ggagcatggg tcaaaggcag ctcttttggt tgggacgtgc acttctaaga  300
agatgccgta tcttagttct tgatgaggcc acggcatcta tagacaacgc tactgatgct  360
atccttcaga agacgatcag gacagagttt agagattgca ctgtcatcac tgtcgcacac  420
cgtataccca ccgttatgga ctgcgatatg gtacttgcaa tg                               462
  
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<210> 53875
 <211> 185

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-C2

<400> 53875

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 cgtgctctgc tgcaatttca aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaac 180
 caaaa 185

<210> 53876
 <211> 74
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-C5

<400> 53876

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 aactatgccc aatc 74

<210> 53877
 <211> 415
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-C6

<400> 53877

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 acctctcca catcgatttc cccaaatcgc ctggcgcgat gaccacggca ggagaggtgg 180
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 ggatgacgtt ctgctttgac gacagcgact tggaggtggc cgacatcttc aaatactgca 300
 acaagcggcc aaaggtccac acctccacgg aggaggagg taagcctgac gaggaggtcg 360
 ccgctgccaa ggtggtggtc ctcgatgagg aggatgggtt gcaaccaccg tcacc 415

<210> 53878
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-C8

<400> 53878

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gtagccgccc tggccctggt ggtggtgatg gcgacgacga gcacaggcgg tggcagggcg 180
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aaaccgcggg cagcatgctg ctccaccctg cgtgcgaggg atgcatgctt gtgcgtgtac 300
gccaaagacc ccaagtttgc aaaatacatc aacaaccca acaccgtcaa aacctttacc 360
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tcttgctctt gtgtgtaaca t 441

<210> 53879
<211> 73
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-D4

<400> 53879

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acaaaaacaa aaa 73

<210> 53880
<211> 335
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-D5

<400> 53880

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ctgcaccatt tactaacgac gttctgctgc taacgactct aggagtttgt ggtgtgacga 240
 cacttaatga atcctacaag atgcttggtta ccacattctt gtacgatgct catggaattg 300
 aaaatctgct gctaccaaca aaggattacc tttat 335

<210> 53881
 <211> 307
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-019-Q1-K1-D7
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 atggcacatt ctgtggaac tttgacggat ctttgccctgc ttttctatgc gatgtaagct 180
 gctgaaacct gcactcatca aatgttgtgt atgcagatgg taccatgcat ttgtttccct 240
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 tttaaaa 307

<210> 53882
 <211> 139
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-019-Q1-K1-D8
 <400> 53882

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 tagtttacc aaactttca 139

<210> 53883
 <211> 273
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-019-Q1-K1-D9
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 aataaaacaa gtttcctttt atcaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
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 gcttgcaacg cttttatact gcgatacata aac 273

<210> 53884
 <211> 294
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-E2

<400> 53884

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 cgtttgtacc gtcaggttgt gttgttcttt tgaacatttg ggcaatgata actaataatt 240
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<210> 53885
 <211> 231
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-E7

<400> 53885

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 tccaaatata ccttctcat tcatacaatt ctaatcttat aatcttttac acatacaacc 180
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<210> 53886
 <211> 403
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-F8

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taatacataa aacctactca attaatctgc aatactactt tacctacaat acaatcttaa 180
ccagctaact tattgatcaa atatcaccaa ttactcaaac tcatccatta aaattcccaa 240
ttttctactg aaacatacta tgatctgtat ataaaccaca taacattcac tactataatc 300
tcctgtatga tttctaacta ctgaattaca tataaatcac taactaatct actctatctt 360
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<210> 53887

<211> 325

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-G3

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gaccgtctga tctcctgtcc aaatacaacc tactaatcac tctcgaccaa catctctttt 180
atgccacggt ctacaccgga gcaaagttca ttttaccagt ggatccctac taataaagga 240
agatgattgc gatctcatct tgtggatcta tactaactcc ctactcactt tctgtacaca 300
tgatgtacac tcataataaa tgtat 325

<210> 53888

<211> 83

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-H2

<400> 53888

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aagggttaa aaaaataaaa agg 83

<210> 53889
 <211> 356
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-019-Q1-K1-H7

 <400> 53889

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 tgactcccta ctctatgcgt tccatttcg gaactcctgc ctacgatcta cgatctacga 300
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<210> 53890
 <211> 383
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-020-Q1-K1-B3

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 cagaacaaca accaactatg tgtgccaagt agcgtccttg ttaatgataa ccctgggatg 240
 ctgtcaaaac ccatggacaa catgaaagtg attgaagggt atctaataa tgagatggag 300
 gccatgacga ttctagaaga acaaccaa atgctgaatg tcattcataa gaaaaagagg 360
 catggagtga aattttggac cac 383

<210> 53891
 <211> 319
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-020-Q1-K1-B5

<400> 53891

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attacggttc acaatttata cacacacatc atacaaaatc gctatcatac acaggcggttg 180
aggtgtacac gcgcaacgct cccgtgccaa cagccaggct cagcgaaaa aaagcccttc 240
cacgatgacc gaaaaacaaa gcacatccaa atccatcccc aaaaaggga accgcgacat 300
gcgaaacctc tcaaaaacg 319

<210> 53892

<211> 340

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-B6

<400> 53892

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attacggttc acaatttata cacacacatc atacaaaatc gctatcatac acaggcggttg 180
aggtgtacac gcgcaacgct cccgtgccaa cagccaggct cagcgaaaa aaagcccttc 240
cacgatgacc gaaaaacaaa gcacatccaa atccatcccc aaaaaggga accgcgacat 300
gcgaaacctc tcaaaaacga ccatccggac gttggacaca 340

<210> 53893

<211> 326

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-C10

<400> 53893

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ctgttactgc aaatgatgtc caaacaacca ctatcttcta tatectatgg tccccatcct 180
ccaccaaggt gaacagcaac atgctttatg caagctcaaa ccataaatc aatattgtcc 240

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tcaaagatct tgcacactat gcacac 326

<210> 53894
<211> 325
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-E3

<400> 53894

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cggtcaccgc accggacgca caggggcgcc gtacgtgcag tcacgcgcca tgaaggtcct 180
cgctcgtgcc gtgctggcgc tcgtcgccgc cgacgcgcgc gccgcgcgc ccgccgtca 240
gggcgaggag gggggcgggc cgccgctgcc gttcgcggtg ggcgcggcgc cggcgggctg 300
cgacgtcgcg cagggcgagt gggtg 325

<210> 53895
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-G1

<400> 53895

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gcatcgaaag catgtgcaat gcccacaaagc acattgctga agctaggaaa ggggtctcgtt 240
ttggacatga cacacttttt gatgccatgc ttaaagatgg actttgcgat gtttacaatg 300
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accatgatgc ttttgcta 378

<210> 53896
<211> 78

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-020-Q1-K1-G8
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 ctcaactatg agttcccg 78

<210> 53897
 <211> 373
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-020-Q1-K1-H10
 <400> 53897
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 gattcatccg gtcctgagcc tatggttgaa gcctgagttc cagcggaagg ggacaatgga 180
 tatttgtgtt atgttatctg attcagaagg tgcaaaacaa gttatctttt gagtacagaa 240
 tcatcatgta attatgagtt gccatcttgg gctgccactg agaggggtgtg atttgggtcc 300
 ggtagcaat ctcatgtatt ggatttcgga tcagtattcg aagctttcat aacgaggagc 360
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<210> 53898
 <211> 404
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-020-Q1-K1-H3
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 tcggctgccg tctcgctccg gggctggtgg gacgatgtca acgagtcgcc ccagtggcag 180
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cagctcgtca ggatccagcg ccgggtgccc gagttcggat ggaccacgca gaaagtcttc 300
cacctcatga acttccttgt caatgggggtc cgtgctctgg tgttcgggctt acatgtccat 360
gtctatctcc ttgcacaaa agtatacaan gtggtgttgc taga 404

<210> 53899
<211> 172
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-H5

<400> 53899

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aaaaaaacta tacataaat aagagccgaa aatataacta attaaaaaaa aaatacaaca 120
actaaaaaac tatctacaac tccctaccca ttactcttc tacctctcct at 172

<210> 53900
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-A10

<400> 53900

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agatggagat aaatatccca gaagattgtg ctgcattaac aggacagtta caaccttttg 180
tcaaagaaga agttttggtc cctgtattca atggaacttt tccatctact gcacagcact 240
tcttttagtat tcttttaagt gatgactcga actacataac acagtatcga acatttcaga 300
aggataaaga tataaatctg ggccaatggc acattgcaca tgagtatgat ggccaggcga 360
gggaacttaa ttgtaaatca atatgccata gtccaatgtg ccttccttat tc 412

<210> 53901
<211> 334
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-A11

<400> 53901

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caagacactc aaaaccaaac gcagattcat tactttggag aacggttttt tatggttatt 120

cgtgaggatg agaccctatc ttctatcaaa gaacgtatac agaaaaagct taaggttcca 180

aatgatgatt tctcaaagtg gaagtttgca tacatttcac tcggtcgtec tgactatttt 240

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<210> 53902

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-A12

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cattctactg caccaacgtg cgcgcgctct tcgaactcac tctctctac cacacccgaa 180

agggaagca taaggagcac tctcattca accgctccct agagtccggg ccgtacaccc 240

tcaacaaccc aatatccatg tggggctaca aaagggtctt tccgcatact actcttgaac 300

aatcacattt tcttaaagat gaatgcttga acataaactg tacattggca tgttgaata 360

tcaactattg attattctaa gccacattca atatatgttc cacactctga cataggcttt 420

cattt 425

<210> 53903

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<212> DNA

<213> Zea mays

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<400> 53903

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ttccagtagt cccacgcaca aacttggcgc agctgcctgc gcgcggccaa ctaccccgcg 120

cgcggcagac ggcacacaggt cgtgccatgg acgacgacgc cacggtcgga tcgcggcagc 180
gccagcagca gccgtgctcg ccggcggtg ctgattccag ggccatgatg gcggagctgg 240
acgcgccgt gcacgccctc gggttcgaga tcgaggagct ctccccgtcg cggctcaccg 300
gccgactccc catcactccc atctgctg 328

<210> 53904
<211> 276
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-B1

<400> 53904

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atagtagtag ttctttcttt agaggaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaagggccgc ccctttaaaa gacccaagct tacctaccgc tccattcaac 240
gtaaaaactt ttttataggc ccacctaata caaatt 276

<210> 53905
<211> 303
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-B7

<400> 53905

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tctttagaca acatttactg tctatgactt tggaactcca aagctaatac caattatcaa 180
tttagttctt ccagaccaca ctacatgtaa tcttgaatac cacctcctac atgaatatac 240
ttgtagttaa tgcaatctat taccttaatt ccaccctat ttttaacctt tctgattcct 300
ttg 303

<210> 53906
<211> 380
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-C3

<400> 53906

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aagaacaata atcacgctga ataagtgggc cccacatcac aatcctgcac atgattttac   180
catcttattc ttaaaattat tcttgaaca attggatcta tatcattaaa agatccaaac   240
tttagatata taccatgaac cccacatgtc attgactcat gtggaccac atgtaagtga   300
gatagtaatg gtatggatcc aaagtgggtga tcttttaatg gtatggatcc aaatttccca   360
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<210> 53907

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-C4

<400> 53907

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aattctaact ctacataaga gcgcctcaca tcacaatcct gcacatcatt ttaccatttt   180
attcttaaaa tcattattcc atcaaactta tctatatcat taatacatcc aaactttaga   240
tatataccat aaacctcaca tagtcattca ctcatgttga cccacatcta aatgagatac   300
taatggtatg gatccaaaat ggcaatcttt taatggtatc gatccaaatt tcccattatt   360
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<210> 53908

<211> 410

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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gacgccagct tccatctgcc ttgatccgt tgctgagcaa atgctgagac tctgggtgctg 240
gtcctggaac gaagatatct gcatgtgctc atcagcagcg cncggcagac agagtctgac 300
tacagtgaag gtctgaaaaa gagttagctt cacaagatcc taaggatctg aaaaagaatt 360
ctgctgcaat ggtactgcag ttcaggaccc agagctaggg caggtcattc 410

<210> 53909

<211> 348

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-E10

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gactactacc tatctaatac tcctatgcta aatctgtcat actaaagtat acgttctcca 180
taaaatccac acattttata tctcaagata ctctaataga tattccctaa atacaagctg 240
aatataaacc ttacagact tttaaaactga aacgtcttct tcaactgaatt actcaaccaa 300
gactcttatt atcaccattt aacgtattaa tcacattatt ccacaaat 348

<210> 53910

<211> 405

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 53910

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gaggcctacg gcgaggagct cctccgctcc atcacggacg agatctccgg cgacttcgag 180

agggccgtga tcctgtggac gctggaccca gcggagcgcg acgcggtgct ggccaacgag 240
 gcggcgcgga agtgaagacc cgggaaccgt gtgctcgctg agatcgctg cacgcgcacc 300
 tncgcgcaga tcttcgcgac caggcaagct tatcacgagc ggttcaagcg ctgccttgag 360
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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-E4

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 tcgccgttac atacggcgtc tacgtgctct cgctctccct tggcgggcggc acgtcggagt 240
 actaccgcga cagcatacat gtgggcgctt tcagctccat ggagaagggg atcttcgtgt 300
 cctgctccgc gggcaatgc 319

<210> 53912
 <211> 328
 <212> DNA
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<223> Clone ID: LIB3079-021-Q1-K1-H12

<400> 53912

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 tggctatgcc tggatttgct aaagcagtgg ttgatgttgg ctaggaagtt ggtgcggatg 240
 caagttgcc a tggtttgact cggtaaagca gtgatcacga tcgcttttag cttacatttc 300
 tatgctttat aaacttgact taaagtgg 328

<210> 53913

<211> 281
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-H7

<400> 53913

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accatgtctg aatgacatct tcgttgctgc tgctgctgct actgctacct gtccgttttg 180
tgttctaaaa gactctgatg agtggttctg aatgtctgca tttcaagttt gctgtgtgat 240
gttaatgtac cgtgcgtacc ataaaaaac ttaaagatct a 281

<210> 53914
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-H9

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<210> 53915
<211> 278
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-A7

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 gccacctatt ttcaatttac tttcccttat ttacatcct cttcacttta aaaacccttt 240
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<210> 53916
 <211> 277
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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<210> 53917
 <211> 399
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-B5

<400> 53917

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<210> 53918
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-B7

<400> 53918

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aataggttac gggtcacctt tgaccctgac tgatacatca aataaaataa aaaaggggac 180
gcaaggtgat gcttctgtac tgaagccaac gctaataact gctgtacctg ctatacttga 240
tcgtgttcgt gatggtgtac gaaaaaatgt agatgcaaaa ggtggggttag cgaagagatt 300
atttgatatt gcctatagcc gtcgtctagc tgctgtcaat ggaagctggt tgggtgctgtg 360
gggac 365

<210> 53919
<211> 384
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-C12

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aaaaaaaaaa taaagggggg ccgccttttt agatcctcca ttcttacctt ccccttccta 180
cgacttaatc cttctttttt ttccccacct aaaattttac taccgcctt cttttaacaa 240
cctgacttct aaaaaaatcc ttctcttccc caaattaatc tttttgcaa tcctcctttt 300
ttcacctatt gcaataacaa aaaagcccc cccacctttc tcccttacca atttttcccc 360
ctccctaatt aataatgcgc cccc 384

<210> 53920
<211> 379
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-D4

<400> 53920

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tgattttgtt tcttatgtga acgagtgggtg caaagacggg gctgtgctta tcggtggctg 180

ctgcaggaca actccaaaca ctatcagggc catacacaga actctgaaca aaagccccaa 240

caagcagcag ttacctgctg tagaataaga gctgtgctct actctgatgc gccgccttc 300

ctcctagcag tacctcgagg ctataactcc atgattccgt aaccgtacgt gttcgttctc 360

ttgcaaacga gatgtttgt 379

<210> 53921

<211> 316

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-D5

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gtccgcgctt ccagaaagca ccgttgtgga ctcgagatag cgacctctac tccgaattta 180

ctttcagctc ttgcatgttt gtggttgtgg ccatcatgta ctgattttcc cttttcaaca 240

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tattaaaatt acctgg 316

<210> 53922

<211> 232

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-E2

<400> 53922

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atttttggca taactgggga acatttattc tggtaacatg gatgccca tactacaatc 180

aaggtctgaa ggtcaatcta accgaatccg ggctttctttt tgtcttggca tt 232

<210> 53923
<211> 295
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-F11

<400> 53923

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aaccaattgt tgtaagttgt aaccagccac tatgttataa tcctgtttgt ttcagctttt 120
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaa aaaaagtacg cctccaaaaa acgtcataac ttttctataa tgaaccctaa 240
attcaattaa ctgccacttc gttttacctc gtttttatta ggcaaaaccc tgttg 295

<210> 53924
<211> 363
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-F12

<400> 53924

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aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aagggtgca aaccaaaaaa atcaaaactt 180
acattcacat gcatgccact tctaatttat caaatattgc cccctaaata aaattcaatg 240
cccaccattt taaaacaacg taaatggaaa aacccttact ttaccaaact taatcgctta 300
ttaaacaatc ccattttccc caatttgatt aattttcaaa atgcccacac caatccccct 360
tcc 363

<210> 53925
<211> 203
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-F9

<400> 53925
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 aaaaataata taaaaaaaaa aaaaaaaaaat agggggcggc ctttctatat caatccatac 120
 ttacttcagc gtccttgcaa cgtaatagct cttttttttt gtaacctaaa tttaatcaac 180
 tggccggcgt ttacaaccat tct 203

<210> 53926
 <211> 175
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-022-Q1-K1-G2

<400> 53926
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 cttttcatcg acccgccggc tgtaggcctt ggcgtctctg gagtctggaa gctnttttct 120
 tctcgcttc gacttcgtca tggccggcgg caacctgttc gggcgggcgc tgagc 175

<210> 53927
 <211> 122
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-022-Q1-K1-H1

<400> 53927
 attccggtcg acccacgcgt gcggccactc cttccgcacc ccaatttcgc ccaaccaccg 60
 gcgcccggcg cccttgcttg ggccgtgcgt ccggtggact tcaaagtcct caaaaaagga 120
 cc 122

<210> 53928
 <211> 426
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-022-Q1-K1-H6
 <400> 53928

ccgcaattcc cggatcgccc cacgcgtccg ctctgcattt ttttaagattc aaaaaaacat 60
 tccttatattt ataagcggta aaacaacgag ccttgataat tcaccggatc ttcttagtat 120
 tatctctgac aaaaaaatat aaagtctgtc cccacaaatg caaattagtt tcttgatttt 180
 caattggttg ttaaatgtct gacatgagca atcagtttgg ttagcataaa aggatggtga 240
 ttttgacaac tacacagttt gtaggaacaa caataaaaac acttcattat atattagggc 300
 tctatgatgt tcaccattca tggcttccta ccagatcaca cattgcataa atcaagttct 360
 acgctattgg ttacttttca gagattcaga cagaacattt atattcttgt tcctggattg 420
 agcata 426

<210> 53929
 <211> 186
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-A10

<400> 53929
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 aataactaga acgcaaggaa atataaaaaa agtggcggcc gttttaaagg acccaagctt 120
 atgttccctt gcatgcgagc tgataaatct cttttagggtg caccaaaatc caattcattg 180
 accgct 186

<210> 53930
 <211> 370
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-B1

<400> 53930
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 tcgggattga caagccactt atacaactat gggcgggtca atcactaatc ccagttactt 120
 atgctggagc agtgtcaaca atcgatgacc tatagaggat aaaaaacgca agcaaaagtc 180
 gattctatat aactcttcgg agtactctac atatatctga aggacattta ccctacaaag 240
 atactgacct taggcacaat aagcaaagta ttgatgccca attgtcaaag aacatatggt 300

aacgatcaat attgtcataa tttattgcaa ataccttgct caaagcataat ttattttcat 360
 taccaagtat 370

<210> 53931
 <211> 414
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-B2

<400> 53931

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 tctaggggttc ttgccaaagcc gccgacgccg tcgcggtgcc ctccaatccc ctgccaggac 120
 accgatacac caagatgacg gcgagaccg cgacgagct cgccaccag atcgagcagc 180
 agaagctcga ggagcataag accgaggcag aggaagttgt ggtggaggat gaggaggagg 240
 aagatgagga cgatgacgat gatgacaagg atgatgatga actcgatggg gatgccagtg 300
 gcaagtcaaa gcaaagcatg agtgataaga agagccgcaa ggccatgctg aagcttggca 360
 tgaagcccat cactggtgtc agacgcgtca ctgtgaagac tagccagaat atac 414

<210> 53932
 <211> 416
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-B5

<400> 53932

taccggtacg gaattctcga gtcaagccac gcgttcgtgt tggttgcaat gaagctcctg 60
 ttgtgtcaac atccagaatg gatgcgatgg gtgggaattg acaaggataa ggtaaaagca 120
 gctttggaga agcgaacgaa atcgaaaggt ggttttgcca cgaaggtaaa tgtgattgat 180
 gatgatgatc tacttgagag agagctagaa caagggtgtg agttggctgt tgagtttgag 240
 aagattaatc aagataagaa gcagaactcg tccgatggta gcatgcatgc accagacctt 300
 gaaaacgctg actaattaat ggagaatggc caccatgtct agcagagtct accaactaca 360
 gctgaataca tgggctgtcc gatggacagt aaagaacgac atacttcagc acttta 416

<210> 53933

<211> 381
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-023-Q1-K1-B8

 <400> 53933

 aaaaaaaaaa atatatgaat aatgcataca taaaaaaaaa actgaaatta aaacggaagg 60
 gaaaaataaa actaatgtat atacaatcta aaaaaaaagg ggcagccgtt ttagagggtc 120
 caggcttacc aactcgtgag ggcaactgat tatcaacatt aaagtgtaac aaaagttaaa 180
 ttcaatggcc atgtgttcac aacagcatgt tctcgaaaaa cctgggtggtg tcccacctaa 240
 atgaccttga tctacatccc cttttaacca gctggcttat tttcctactg gtcggaacct 300
 tgcgtggtct gcaactgttg ctcaacctga ttggcaattg gtacccgctt taacacggca 360
 cttgtaccgc ctctggagcc c 381

<210> 53934
 <211> 298
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-023-Q1-K1-C2

 <400> 53934

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 aataaaaaaa aaaaaaaaaa aaaaaaaagg gagagatata aaaaaaaaaa aagaataaaa 120
 aaaaaataaa taaaagacta cctcttttaa aatcccaacc ttacatcctc ttcctttcta 180
 cgtcttacct ctactttagt ttacctaata ttctattcac ttgcctttct tttccatctc 240
 ataatctggc aaatcctttc cgttcccca tttaatcgtc ttgcactaca tccccttt 298

<210> 53935
 <211> 418
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-023-Q1-K1-C6

 <400> 53935

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cgcgctcgac ggcgctgagc acggagctga tcaacaagcg gggccatgtg cggcgcggtgc 120
 ttcgccatcg cctgcgacgc ggggcgggtcc cagtgggtgca agccggggcgc cgcctccgtc 180
 acggtcacgg ccaccaacct gtgcccgcgc aactgggcgc tcccggggcga cgccggcggc 240
 tggtgcaacc cgccgtgccg acacttcgac atgtcgcagc cggcgtggga ggccatcgac 300
 gtgtaccgcg cggggatcgt gcccgtcaac taccgccgcg tcccggtgccg tatggacggc 360
 ggcgtcaggt tcaccgtcca ggggcgcagc tacttcgagc tggtcaccgt cgccaacg 418

<210> 53936
 <211> 437
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-E3

<400> 53936

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 tgctattgct ttcatactt gcttaaaggc ggggtgatgt tatcactcgc cagcgaatg 120
 atcttctcgt gactgacacc atcttactcg ggtaagcact gactggctat accgaacctg 180
 acattcctct taaacgacac tgcctcatct atcacatatg cttattaatc catccaaagt 240
 acagaggaag ccatacacta tatgaggatc ataccacaac cataagggac cctcggacat 300
 tgggagcagt tgaatctaac tcagcatcat gatccatgct tgacatcctt gtgaggataa 360
 cgacgctacc aacaagctgt tggaggccta ggacaacaat tctcctaagc agttgttact 420
 catgaaagtt tgccctg 437

<210> 53937
 <211> 447
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-F3

<400> 53937

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 catccatata acctcaaagg agtatgagaa atgaggccca gatttatgct gagctatcta 120
 caagctataa caatggtagc aaaactgatt tagagacatt catccaatca aattcagcac 180

catttcaatc tgacaacaac cttgagctgg tgaacaagt gctctcctag atgtacaaac 240
 agaacataca aaggctgacc cagacttact tgactctttc acttgaagat attgctaggt 300
 ctgttcaact tgaaacacca agggatgctg aaatgcatgt acttcgcatg atcgaacact 360
 gagagagcca tgcattcata aacaaaaagg atggaatggc cagctttcat gaatatcctg 420
 aacaatataa aagtgttgaa atggtgg 447

<210> 53938
 <211> 459
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-G1

<400> 53938

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 tgaacgaggc ctagagggca acaaattcgt ggtcgtgaa cgaccacagg ggcaactcgag 120
 gggactttac tgtacagact cgggttgaagc agtgggtgaa gagcggaaaa tgcgaaaaga 180
 aaatgcctgc gatgtactcg aggaaaatgg gtgcagccac cttcaggaat caaacggctc 240
 agacttgatg tttgcagact agagtatgac aacatgttat tccatctctg atgttaaadc 300
 tactccctgc atcctcattg atggcacaaa gttgcaatac agaactgac agggcttatg 360
 agagagagag agagagagaa atttatcctg acacacatgt atggatcaca tttgggtgtc 420
 ttcttaaaac aagacacgac aagatattct ttttacata 459

<210> 53939
 <211> 408
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-G2

<400> 53939

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 tgactaagga gcatagaatg tggagaattt taccttgggc caatcaaaag ggcaactcata 120
 agagactcta ctgaactaac tcaatagaat caaaggatag aatagaggaa aatgcaaata 180
 gaggatgaac ggtatgttct cttggaaaac tgctgctaga acgtttatga atcaaacacg 240

gtataactaga tgtgctcgga ctaaagatg acaacatggt ataagatctt tcatgttaag 300
tctactcctt gcatactgaa ctgtggaaca aattcggtat acagaacatt acagggctta 360
tgctagagag cgatggagac atatataacc tgtgacacat gtatgggtg 408

<210> 53940
<211> 377
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-G9

<400> 53940

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atcaacgagc tcatctccaa gctgcaggcc ctgtctccca gctcccgccg ccgaggctcc 120
ggccaggcgt cgacgacgaa gctgctcaag gagacctgca gctacatcaa gagcctgcac 180
cgggaggtgg acgacctgag cgaccggctg tccgacctca tggccaccat ggaccacaac 240
agccccggcg cggagatcat ccgcagcatc ctccgctcct gatcgccac gcgcctccta 300
ctgcggcggc gccggccggc gcgcgagaga gcgaggtcgg cgacgacctc gatcgccgac 360
aacgacgacc gcgcgcg 377

<210> 53941
<211> 245
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-H10

<400> 53941

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catgtgcacg gggtttgggt ggaatgccta cagaatcgac tgtgtcaagc tttcttgatt 120
ccgtagaaac atgttttggt tgacctcatc atagaggatc tccgctttta tcgtacaaag 180
attgtgatat gttcttagct tctttctacc tgaataagag gatttctgca gacccttttc 240
caaaa 245

<210> 53942
<211> 246
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-H11

<400> 53942

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ccgtagacac atgtcttgtt tgacctcatc atataggatc tgcgtttcta tcgtacaaag 180

attgtgatat gatcttagct tgtctctacc tcgaataaag gatttctgaa taccctttta 240

catagc 246

<210> 53943

<211> 165

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-024-Q1-K1-A1

<400> 53943

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gtggatctgt gaaccccatg ggcctctctg tgtgagtcgt gtttcacctg ttatgttctg 120

agattcatga taatgctatg agaactgaaa ttcccgtttc atgct 165

<210> 53944

<211> 107

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-024-Q1-K1-A2

<400> 53944

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaatttttaa aaaaaaaaaa aaaaaaaaaa 60

aaaaggaaga aatattaaaa aaaaaataaa aaaaaaaaaa aaaaaaa 107

<210> 53945

<211> 183

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-024-Q1-K1-B3

<400> 53945

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acggaggaag cataatcaga caatgaaaac taaaagaggg ggccgatcta gacgatccaa 120
tatcacatac acaggcttac cacattatag ctcttatata gtggcaccta aatacaatgc 180
cca 183

<210> 53946

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-024-Q1-K1-C8

<400> 53946

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tacatacaga aacatatcaa ccacataact ctcatataat atactcctaa attcaattca 120
cttcaccctc catatacaac ctcttaatct aaaaaaaccc ttccattacc catcttaatc 180
accttgcatc acatccccct ttcaccacca tacatactaa ctaccacgtc ctcacctatc 240
ttccttccca acaattgcac accctcaatt gctaattgga ctccactgt actctcgcat 300
taatcacctc cgccatagtg gttacgctca acctgaccat tccactctcc atctccctat 360
cgactcatcc tttccttttc ttcccttctt ttctttctcac gtt 403

<210> 53947

<211> 497

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-024-Q1-K1-D1

<400> 53947

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ggctcccaag tggcacgacc atcttcaggg ttggtgctta aatttccacg gtcgggtgac 120
cgtcgcctcc gtgaagaact ttcagctcgt cgccacagct ggctcc 180
cgtcggagac caggagacag tgat ctgca gttcgggaag atcgaggact atgcgtttac 240
gatggactac cggcagactc tgtccgcctt tcaggcgctt gccatctgcc tgaccagett 300

tggcacgaag ctggcctgtg aataaatggg tgccggttta ccaactatgt tggggatcag 360
 attgtatggg gtagtctgaa ctaggtgccc tgagcacctc agatgggaga aaactggcga 420
 tatgatacac ggcggaacgtt gtcctataa accttgactc ccttgaatcg ccctaatagat 480
 tgagatatat atatatg 497

<210> 53948
 <211> 407
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-024-Q1-K1-D3

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 agggggaatg gggaaggag cgcaaggag cgatgcggcg gcggcgggcg gcgaggtgga 120
 ggagaacatg gcggcgtggc tggttgcca gaacaccctc aagatcatgc ccttcaagct 180
 cccgccgctc ggcccttatg atgtccgct ggcgatgaag gcagtgggga tttgcggcag 240
 cgatgtgcac tacctcaggg agatgcgcat cgcgcacttc gtggtgaagg agccgatggt 300
 gatcgggcac gagtgcgcgg gcgtggtcga ggaggtgggc gccggcgtga tgcacctgtc 360
 cgtgggcgac cgcgtggcgc tggagccggg cgtcagctgc tggcgtc 407

<210> 53949
 <211> 456
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-024-Q1-K1-D5

<400> 53949
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 gcgatggatt tgggggtgct caaggatatg ccggggatcc gcgataaggc gaactccaag 120
 ttggcgctta gagaggagca atacagcggc atgcttctgt cggcctacaa ggagatgttt 180
 tctgaccgcc aagataattt gaatgattca ggggatgggtg gaggagcccc agtattcaaa 240
 tggttctccg tattagaatt tgagagtctt gcccaggagc ttgttcagat gtttgtttca 300

gagcaaaagt tgaagaggct gctactcttg gaatttctct cgattgcttt aaaggaaggt 360
 gtagaactcc agacatcatt aaattggggg gatgaactat atgatgggtga atcanataaa 420
 cttcagagta tnggccttca gtcaggagat gcctac 456

<210> 53950
 <211> 410
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-024-Q1-K1-F8

<400> 53950

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 agagcatggt ggctgagccc tagagcacia aattctgggc ttctggcaaa ctatttcctg 180
 agacgttcac catttccatc acagaaaaat aaagctcggg tgccttctgt tgatttcgac 240
 gtacatttcc ctgccgatgg tgtccagccc actggtgtcg ctggagaaca cgtcgttttt 300
 agacttgtga tattttacta ctgttttgac actcgttgta tttctgtata tcgcgtcaga 360
 ctgtgaaata aaagcagtac agtgtgtttc ttgcagaaaa gatcatcaac 410

<210> 53951
 <211> 155
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-024-Q1-K1-G3

<400> 53951

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 aacagggaac tgcttgattt caaaattgtg ctttcggagt gtggtactgc tgttactcat 120
 caaaactgaa aaaaatcggt cttaccatca taaaa 155

<210> 53952
 <211> 216
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-A10

<400> 53952

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cagaatgatc aactacctga tgaataagtg gaaaggatat atcataactt agataccagg 120

taccaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaataaa 180

agataaaaaa agacaagata aacaaaaagc taaaag 216

<210> 53953

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-B11

<400> 53953

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caattttgcc tcaatgctca caagctggta tagcttcctt gcttactcca taccttccat 120

caatgatagc ttcagtatgt gaaaaccac ctttatacc cttatgctc caacaagcaa 180

tccacagcta gcaacatacc tttatcacc tattcggttc aacaatcgcc gaccctatct 240

ttgggtgcagt catcgggtca caccatcatg gcacatcaac taccgcaact catgctacct 300

gtgatccacc aaactgctct agcaaacctt gctacctact ctcagcatca acactcacta 360

tcattcaacc aactgtatac acttaaccct gctgattatt ttcacaaaca tctatatcca 420

ttta 424

<210> 53954

<211> 54

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-025-Q1-K1-C1

<400> 53954

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<210> 53955

<211> 347

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-C9

<400> 53955

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tatcgagtgc ttgatctcct accagatctg ggagcaactg tagttgcgag cccgaatagc 120
ggatcaagca acgactacgc cttcgactat gatctgcagt ctgatctacc tacagagaac 180
cctagataca actgggcaac cgcacggacg cccacgtgac gtcgcaggac cagcagaaca 240
tcaaccgctt cattcgcttc aacaaccgcc ttcacaagct ccaggacgag atcaagctcg 300
cgaacgagac caatgagaac cttgatgata ctctgaatga acttatac 347

<210> 53956

<211> 313

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-D8

<400> 53956

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gcagatcgga agctttggtg ttggaattcc tcatcatatt tgcattggcg agaagaaata 120
ggttgaggct tgattctttt tgcttggtgt gtttgcccta tagtttgat attgccctaa 180
ctgcctaagg ttgtctccgt cagtttttca accacacctc gtgttctata ttttatttca 240
aactctactc tgtaaatacg gtaaatagtg cactctatat tataaaaaata aattttgtat 300
gactatataa aaa 313

<210> 53957

<211> 313

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-E10

<400> 53957

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aaaagtaaaa ttacaaagga aaaaaaaaaa aaactcctcc actttatcca atcctacttt 120
ccctaccctt ccatccaacc ttttttctct tctttaactt cccctcaatt cacttcactg 180

tccttcatta tacaatttct tacctggcaa aaccttttct ttaccaatt taacctcctt 240
 tcattctcatc cccctttccc catcttttctt attcccaaac atccccgaac cgacctccct 300
 ttccaacctt atc 313

<210> 53958
 <211> 445
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-E12

<400> 53958

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 ctctcttcca tggctccgac cgtggttgtc aaggacggga agctggtggc tgcagtcggt 180
 gccagtgggtg gcggcatgat ccccgccgga acgatcgagg tgttcatcaa ccatttcgtc 240
 aagaacatgg acccgttggc ttcggtcatg gcgccaaggg tgtatcacca gctgatccca 300
 aacgaggtca ggtacgagaa ctggacgacg gtgaccggcg accacttcga gctcgacgcc 360
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 ataagccagc ttgtggtgca caacg 445

<210> 53959
 <211> 69
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-E8

<400> 53959

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaggaaggg 60
 aaaaaaac 69

<210> 53960
 <211> 71
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-E9

<400> 53960
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaataaaaaa aaaaaaaaaa aaaaagaaag 60
 gaaagataaa t 71

<210> 53961
 <211> 267
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-G11

<400> 53961
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 acccgattgc acggcatcac tgtcttgatg ccgctctgcc gctcgggac atcgctgagc 180
 atgctctgca tcatgggcaa cgcccactat ttcattccaca atgcacgagc acggcatgcc 240
 gaagcacata cctaacgata tgttcga 267

<210> 53962
 <211> 74
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-G2

<400> 53962
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 aagggaaaat aaaa 74

<210> 53963
 <211> 174
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-H11

<400> 53963
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 gaaagtga aa aaaaaggga tgcataaaaa agggcgacca ctttaaaggc tccaagctta 120

cgtactcttc catgcaactt cataactttt ctatagtgtc ccttaaattc aatt 174

<210> 53964
<211> 466
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-026-Q1-K1-A12

<400> 53964

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cgtttgcgcc aactacttc ggccgagga aaaggaagcg cgtttagga ccaccaccag 120
atccttggtg ctggattctt tctttgtac tagctaggtg tcccttctcc tatcagacag 180
actataaggg caggcccgtc ctcaccgttc cgccgccgcc tcgaactgga ggagcgagca 240
tgtatccgc accgaaacac acacgcaaac ggcaccacca ccaccaccac cgtccggcga 300
ggtagggagg cagcggcgcc atgggttgct atcctccct ggccaagatc gtgtctagag 360
cgctcgaaa atgcaacggc gggcgcgaga gatggcttga aaggaggctg gagctggact 420
ttgatcacgc cttgggtgt cagcccacgg agaccacta catgcg 466

<210> 53965
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-026-Q1-K1-A2

<400> 53965

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cctgggatcc gccaccagta ctagtttgca cggcaggagc aagttttacg atggaggaag 180
cagaagaaat agttgactct gtcaatgaaa ggaacgatga cctgctctca gcatggtgtg 240
aaatggtaaa caacaaagtg actcctttgc ctgcaacgcc tctacatatt cttccagcca 300
taaccacatt ctgtgtttct ggatatgagt gctaccacct gcgatattgg actgaaatta 360
cttctgaaac tgatccagat catccatatt tcaaaccctg tgagatgatg caagtgttct 420
ccttgga 428

<210> 53966
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-026-Q1-K1-A3

<400> 53966

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ccttaccttt atgttctaca tgtcgggtgtg ggtctctttt tttcaagggc gttctattat 120
tgtttatatg tccacettca cactgattag ctggtccttg ttcctacaca ggtattatct 180
gtcatgtaca tttttatacc tttccaaatt agcttattat ctttaaaaaa ttgtattttc 240
ttggctactt tacatttgca tgaccagtgg caacatattg aaacactcat agctaactta 300
gaggaaagaa aacataatct ttaaattgct cataagagag aatgtcattt ttcagaaaaa 360
aagacaaaca gtattgatgc cttataaaat cttaaactga tgcattgttaa tattatca 418

<210> 53967
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-026-Q1-K1-A6

<400> 53967

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cagtgggaca atcttcgtgt acgaaggtcg aatccttgag ggcgaggttt tgacaagtac 120
aacatcaaca catgatcctt tagtaaccgt ttcaatagga gtacccccaa gaactagtaa 180
acatggcaaa actgttgagc ctgttcttag cctctcctt tgtagcagct atgtttgcca 240
taggctctca tgctgatgga gactgtgaga atgacctgca aagcctgata agtgactgca 300
agacatacgt gatgttccca gctaatacaa aggtccctcc ttcggatgct tgctgtgggtg 360
tcatcaagaa ggcatacgtt tcttgcttgt gctccaaggt caccaaagaa actgaaaaag 420
ttgtgtgcat ggaga 435

<210> 53968
<211> 440

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-026-Q1-K1-A9

 <400> 53968

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 aagaaggttt tcaagagttt ttccagaaac ttggtggaca ttttcatgtg ctttctggga 120
 gaagcaaaac aaatttacia gagccaacta tggattctat gcaaactgat aagaccccaa 180
 cagtcttggg acttatgctt gcacaactct gtgtttacat tgaacaaaca acagtcccta 240
 aagttacaga ggagtttagct tctttttttg gaggtggtgc acatagctac gaatatggac 300
 caccttttgt gcctggagaa atatgtcggc tatatcgatc atctggagag aaattcttgc 360
 accattacat aaatatgaag acccagaaga tctccaaact tcttaacaag cgatttacia 420
 caccagtttg gattaagcac 440

<210> 53969
 <211> 350
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-026-Q1-K1-B1

 <400> 53969

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 tgtccgcgcc acagcacacc tgtggcgctc cggctcgaga tgctttgcac ggcgtagctg 120
 gcaagaagcc aggaaccttc cctgttcctt accgggcgca aaggggctca cttttaattt 180
 cctcgagagg ggactgcctc ctttattcgg cggcaagcct atttctgcct tgttgccctg 240
 cactcgggct gtccttcttc tatgattctt ggcaccgtca gtttaatttc gagaaatggc 300
 cgcaggggtg atactcaaga ttgccagctt atgcgtcatc tgggcgctat 350

<210> 53970
 <211> 432
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-026-Q1-K1-B10

 <400> 53970

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 gtttttgcta ttttactgta tatatactcg ctggatcctg atgcatgggg gtaggtgtcc 120
 tgagtcaaaa accattgtga aaatagtacc aacacacctg ccacatcaag aggtaaacta 180
 taaaaaaat cacatttcat aatctcttgc tgacctgcta ttttcatcca cacttgttac 240
 cgtctggttt cgctctaaaa gcgaagctta tgtccatctg catgtattga tgtgggtttt 300
 ttatttaata tattatgagt gctaccagca tgatctgttc cattctgatg attggatgga 360
 tatcgcataa ccttagagtg ctgaatttac taggtggctg attcagatag aaatcatcgt 420
 acgacgcata ct 432

<210> 53971
 <211> 432
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-026-Q1-K1-B11
 <400> 53971

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 cagcatcggt catcaagtta agaccgtggc cgcctaagcc taattgtttg ggcccctgaa 120
 ttgatttcat ggtggatctg aaaggatcct aacacagcaag acccagaaaa tccgttaaac 180
 agctctgctg taccacttg taaaattaca tgagccatcg ggttcaaagc gaggcagccc 240
 tctaccttga atatggaatt cttttattgg ttgttttggg acttgtgacc ttctaggaat 300
 agtacttaa gctgtctaag ggttggtatg cgcacaccac attacatggt tttcacttct 360
 tttaacacac atttaactga tgcaaatagg tcttgccatt ttttaaaaaa aaaaaaatct 420
 tttttatttt at 432

<210> 53972
 <211> 421
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-026-Q1-K1-B3
 <400> 53972

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tactggcatc atgtctggtc ttgatgaacg ggttgctggt atgggtgatg tggcagttgt 120
taaccctcct tatgtgccaa ctctgtgga agaagtcgga tgtagaggca ttgcttcgtc 180
ctgggcaggc ggtttgaatg gccgccaagt gattgacagg atccttcttg ctgtgctgta 240
gatgctatca gaaagggggt ggctgtacat ggtggccctc gaagataatg atccttcaga 300
catatgccat ctgatgagcg agatggggta tgcattccgc gttatcttga agaggtgtac 360
tgaagaggag agcctttatg ttctcaagtt ctggcgagac ccacacgctg ttacaagtgt 420
g 421

<210> 53973
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-026-Q1-K1-C10

<400> 53973

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gttcaaggac ggcggctgtg gtactttcgt tccgctgttc ctcaacggga ctgcatctgt 120
gcggcgctac aaccagtttg aaaccagtc tgctgctagc atggcacctc gtgtggacct 180
tctgcaagct gtgcatactc ctgttgatga catgatgctg catgctgatg ttgacccaaa 240
cgatcctacc aagatctttc ttcatcaacc tgcgccagaa tcgcagctta ggaggaggaa 300
ctaccactgc ccagctgatg caaattagcg cttggctgga ttggcacaac tcatgctcaa 360
ttaagtgtcg agtccatttg agcattttac ctatccttgt cctctaccac atctgacttc 420
aatattcg 428

<210> 53974
<211> 404
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-026-Q1-K1-C12

<400> 53974

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aggtggacta cctgatgtcg tacctgcata tgtgcttgta cttctttcat gtttagaagt 120

gccaacctct gcattaccta acatcttcaa gctacctttt ttcggacggc atcttggaca 180
 ttgccacttc ccagggggta gacgcttaag aggaggattg aggcattcca agtggtaaac 240
 actaggacag ctatcacaac atagcagatt gccaccaaga tcacattcta cacactcaaa 300
 aaaatacca tegtgtcttc ttatcttctt ggctgatgga gaaatgtag tgtcatgctt 360
 caacttcttt atggtggaac catggctcat tggagagtca aatg 404

<210> 53975
 <211> 436
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-026-Q1-K1-C4

<400> 53975

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 atcatggtct cgccgtggat caagaagggc acggtcgtcg gccgcgcctt cgggcccacg 120
 gacacctccg agttcgaaca ctctccatt ccggccacca tcaagaagat cttcaacctc 180
 tcgtccgatt tcttcaccaa gagagacgcg tgggcccgtta ccttcgacca catcttcacc 240
 gagctcgacc aaccaagaac agattgcccga gagacattac cggaggtgcc atttgagaga 300
 ccaactccac ccaaagaaca cggctggctc tcagatttcc agcgggagct cgtcgagctc 360
 gcgagcttcc taaacggcga ctacatgctg acgagccttg cgcaggagaa ccgtaagaag 420
 aagatgacag tcaaac 436

<210> 53976
 <211> 448
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-026-Q1-K1-C6

<400> 53976

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 tctcgtccac tcttttgcg aaagggtcga tatggctcag cagcagaagg tggtggtcag 120
 ggtttcaacc atgacagatg acaagatcaa gcagaaggcc atcgaatctg ctgcggacat 180
 ttacggtatt gactccatat cagcggatct gaaggagaac aagatgacca tcataggcga 240

gatggatgca gtagcgattg ccaagaagtt aaagaagatt ggaaagattg acattgtgtc 300
 tgttggacct gcaaaagaag aatgaagga agaaaagaaa gaggagaaaa aggaggaaaa 360
 gaaagaatag aagaagagg agaagaaaga acagaagaac gaagacaaga aagaagaaaa 420
 gaagtgataa acctattaaa catatata 448

<210> 53977
 <211> 307
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-026-Q1-K1-C9

<400> 53977

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 aagattataa aaaaaaaaaa aaaaaataac aaaaagggtta aaaaatctag gaaagaataa 120
 caccaaacta ctatctcttt tacacccttc actcttttac ctcatcttta attcacccca 180
 ctgtctactc catccttcca ccttttatca acttactgct tccacaatta aatccctttc 240
 ataataaaat ccattacccc atcaaaactca ttacctatcc atcctaaatc cttttctata 300
 ctttcac 307

<210> 53978
 <211> 410
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-026-Q1-K1-D10

<400> 53978

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 cggcgaacgt gtcggcgctg gtgtcgctgg gcgcggagaa gtcggacgcg cgcagtgtccc 180
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 gcacccgggc cctgcccgtg gacgccagcg gggcggtgta cctggtgctc acgtccccgg 300
 acgtcgccgt ggacgacttc tgcgggcagg tgtgcagggt tcaactattc accttcgcgt 360
 ccgtggtcgg gtccacgctg acgtacgctg tgggtgggcaa ctcggcgcgc 410

<210> 53979
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-026-Q1-K1-D12

<400> 53979

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tacgcaagga caactttgtt ctccactatg agatggtaga gaaaaggcca gttctgcctt 180
caacatcacc aaaccttaga tgaaaagaaa atctaggacg gagagaggaa cacagaaaca 240
tattacgata tgcaggaagg actaaagatg caggaagtcg cagaacagaa ttgatgatgt 300
ccaattaaca ccccttgtga ttactaaaac tgtgagcgaa tgttacgttg ttcttgact 360
aacccttcg ctctccta atgaaactgtct aatgttcagg attaggtcct cttcagcttc 420
aagataacaa cg 432

<210> 53980
<211> 459
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-026-Q1-K1-D3

<400> 53980

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caggggtcgg cagagtgatt gaatccttca aggtcttga gtacttggat gttcggatcat 180
gccctcaggt tacaaggac agctgcgagc aagctggagt gcagtttcct gctggctgta 240
aggatgaattt cgatggcagt ttgctggaat ctgatccatc tgctgagatg ttcttctaaa 300
atgtgatctc ggttgaaatc agatttagtg tgaactgcaa aactaagatt tgaagagctc 360
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aacctgagac cacaacggat gcaagccatg atcatattc 459

<210> 53981
 <211> 438
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-026-Q1-K1-D4

 <400> 53981

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 cacttgtcac cactactgat gccattggct accatgaacc catggatgca gtactgcatg 180
 aagcaacagg gggttgccaa cttgctagcg tggctgaccc tgatgctgca gcaactgttg 240
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 acaatgatgc cgatgccgaa tatgatgcca togatgatgg tgccgactat gatgtcacca 360
 ataacgatag ctaatatgat gccaccgatg atgatgccaa acatggtttc accaatgatg 420
 atgccgagta tgatgcct 438

<210> 53982
 <211> 285
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-026-Q1-K1-D5

 <400> 53982

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 tcggcgagat caactcattt caagtaacct ttctgtctaa tgtcttecta tcctgttaat 180
 cgtctcttag anntgtttgg cgtgtcctgg tttgagattt cagtctgcta gtctgcataa 240
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<210> 53983
 <211> 253
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-026-Q1-K1-E1

<400> 53983

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gtcctgttgc aatggcgccct tcagtaggtc ctgcgatgcc catgtttcca cctgggtgtcc 180
ctgaagttgg ccagcacctg ttttatggca agccacaacc agctttaata aaccttaagg 240
ctgaatttgt ttt 253

<210> 53984

<211> 459

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-026-Q1-K1-E11

<400> 53984

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gagaagtgtg taacttatgc tgaaagtcac gatcaagcat tagtcggcga caagactatt 180
gcgttttggg tgatggacaa ggatatgtat gatttcattg ccctcgatag accttcaact 240
cctaccattg atcgtgggat agcattacat aagatgatta gacttatcac aatgggttta 300
ggaagagagg gctatcttaa tttcatggga aatgagtttg gacatcctga atggatagat 360
tttccaagag gtccgcaaag acttccaagt ggtaagttta ttccaggga taacaacagt 420
tatgacaaat gtcgtcgaag atttgacctg ngtgatgca 459

<210> 53985

<211> 446

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-026-Q1-K1-E4

<400> 53985

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gccttttacc ccagcgttct ttgccccagg gggcagtgca tacttggtgg atgcaaaagg 180
 tgcaccagtc ataccaccgc tgtcaggtct aagcctcggc atttctcatc catctttcaa 240
 caccagagca acacagccct catctaata actgagttac ttccatccta gcgtggattt 300
 cagttatgga gtgtcatctg aaggcgcacg tagggaagca gggagctact ggcccatgtc 360
 ctaccagggt cagacaatgt ttgtggatga acgcatgang aatgtatcac aggatggtag 420
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<210> 53986
 <211> 403
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-026-Q1-K1-F3

<400> 53986
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 cgcgccgtcg cctcctcgc gcccgcgcg gtccgccacc tggcggggcg cgcgaggcg 180
 gcggaggccg agctcaagag gacggcgctc tacgacttcc acgtcgccca cggcggaag 240
 atggtgccgt tcgccggctg gagcatgcc atccagtaca gggactccat catggactcc 300
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<210> 53987
 <211> 441
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-026-Q1-K1-F4

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 cgtaccacag agacttactc caaagtgacc agattctttt ttatatgcaa ctatatcagc 180
 aggataatag aaccacttgc atcaagatgt gcaaagtta ggttcaagcc tctttcagaa 240

gaagtgatga gtagtcgcat tatgcatata tgcaatgaag aaggcctcaa tcttaatgct 300
caggcgatgt ccacactgag tgtcatttct caaggtgac ttcgtcgtgc tataacctac 360
cttcagagtg cagctcgctt atttggatct tctatctctt ccagtgcct gatcagtgtt 420
tctgggggta tccctgaaga t 441

<210> 53988
<211> 470
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 53988

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gccatcaaag gtttctggga catgtacgac ccagaggggt actctttgtg gttctgtgac 180
tacaagtaca atgatgagaa caccgtctcc tttgtgacct tgaacaaggt tgggtggattc 240
ctgcagcggg tggacctgtg ccgcaagtac gcctttggga agatgctcgt gatcct 300
gagccaccct tcaagctgaa gggcctttgg ctcttcctgt gccaggatgt tcccaagttt 360
gtaatggacg aggtctatga catggagctc tacgagtggg ccaaggtgga cactctctat 420
gaggcccata aggagcgtgt caatgcgatg attgaggacc aggagccctt 470

<210> 53989
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-026-Q1-K1-G1

<400> 53989

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tttcatgaaa ttgggcactt tttggcagca tttccaaaaa atgctaaact gggaattcct 180
ttctttattc cgaacttcac ccttggaaact tttggcgcaa ttactcactt caagtccatt 240
cttccggatc gaaagacaat gtttgacata tcaatggctc gtctgtggc tggagctgca 300

cttttctttt caatgttctt tgcggtgta ttactctctt caaatcctgt tgacgcaagt 360
gattt 365

<210> 53990
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-026-Q1-K1-G2

<400> 53990

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tgatacctta ttttgagctc aaaaatgctg ggggggttgg ggaccttgaa ctgttcaggg 120
ctgttcgaga caaatttgca agcacattca ggcgagacag gactcgtaat ttgattgtga 180
ggctgcgcca taatgtcatt cgaactggac tgcgcaacat cagcatttct tactcaagga 240
tctcccttgc tgacattgct aagaagctaa gactagactc tgagaaccct attgctgatg 300
cggagagcat tgtagccaag gccataagag atggcgccat tgacgccacc atagatcatg 360
caaatggctg gatggtatcc aaggaaactg gtgatgtcta ctcaacaaat gagccacaaa 420

<210> 53991
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-026-Q1-K1-G3

<400> 53991

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ggccaccgct gctgcaaacc gcaaactggg ttatggcccc gggggaggag gtggcggtgg 180
tggtagcggg ggcggtggag gcggtggtta cggaggacca ggctatgggt ccgcatcagg 240
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ctgctgcggg ggtggtgagg gtgcgggagc tgggtggctct gggtatgggt ccggtcaagg 360
atctggctac cgagctggca gcggtgctgc cgggtggatat gggagtgg 408

<210> 53992
 <211> 340
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-026-Q1-K1-G4

 <400> 53992

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 accaaacaga ccggttttttg gagccccggg atcttttagca ctaggacggc catcggcacc 120
 gttgctgcat acgcgcaact ctgttaatgt accccgggag cagctggtcg tcgtggcagc 180
 gcgggtacct gatgagctac ttacacaggt ccaacatcac ggtcctgaac aggttctaca 240
 cactgacct gtcggcgaac agctcgctgc acggcattgt cattcggctg cgggcactct 300
 cagagcgtgc tgatcaaccg cgttctacag gcttctgggc 340

<210> 53993
 <211> 373
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-026-Q1-K1-H10

 <400> 53993

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 cgccatcgag ggcattgaac gcaaggagct ggacggccgc aacatcaccg tcaacgaggc 180
 ccagtccccg ggcggccgtg gaggcggcgg cgggtgggtac ggtggtggcc gtggaggcgg 240
 cggctacggc ggtggcgggc gccgtgatgg cagtggcagc tacggcgggtg gcggcagcta 300
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 cggctactgc aac 373

<210> 53994
 <211> 452
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-026-Q1-K1-H11

 <400> 53994

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 ttgtatgaag ctgttgggtga aaatatttca ggtccttcat tccatttgaa tgaatattct 180
 agtggaaacca tacaagctac tggcaagcca aacgattgtc gacgtattga ttcagctgtg 240
 cggaatttgt tgctcaaagg attaggtcag ccgttttagtg aggaagatat tattgggtatc 300
 tatagaacac cactgctaga tcagcgaggg caagtctgtt gtggtctctt ccagaaggag 360
 atcgaagaga ccatgagtcg ttcggggaat gcataatgtac gttatgcttg gcttccttgc 420
 tcaagatata ccatggagca gatggcaatg cg 452

<210> 53995
 <211> 372
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-026-Q1-K1-H4
 <400> 53995

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 tcgtcgagac gactgtatct tcgtaggggc tttcctacca ggctacgtcc aaggctggtg 120
 cacctcctat cctactcaa gctgctgcaa ctggttgcct acggatatcc aaccttcgta 180
 cacaacttcc tattagcgat caggttctaa tggcagtact catgctgcaa cttgttcagg 240
 ctaacgtact tcagtcacgc acatgccact gagcgacgtc gaaggctaca ctataatgac 300
 gaccactgag cctggccagt tgcaccactg gaactgaaca cgctaggcca agaacggcat 360
 acattgcaac tg 372

<210> 53996
 <211> 209
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-026-Q1-K1-H5
 <400> 53996

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 aggaaataaa aaaaaaaact aaaaaaaaag ggaaggaaaa aaaaaaacia aaacgtaaat 120

cgcattgccc acgttcttaa ggatccaagc tttcttcctc gtgcttgcca cgtcttacct 180
 tttttatggt gacgcctata attcaattg 209

<210> 53997
 <211> 456
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-026-Q1-K1-H7

<400> 53997

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 aatgcataaa ggctggacat ctttctcgcg attgctgaga aagcacatct gaggtggacc 120
 gaaatgatgg cagtattagt agaagcagag acgatacggg taccaatact gctcctgctg 180
 gtggcaacag tcctatggac gaagacgatg ttcaagaaat tggatgatgaa gagaaagaaa 240
 agttgattga cttggactac ttaactggaa acccactacc aaatgatatt ttgctatatg 300
 ctgtacctgt gtgtgcccct tacaacgcat tgcagacata caaatatcgt gtaaagatta 360
 cccagggcac tgcaaagaaa gggaaagctg caaaaaccgc gatgagcttg ttcctgcaca 420
 cacctgatgc taccaaccgt gagaaagagc tcatga 456

<210> 53998
 <211> 437
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-026-Q1-K1-H8

<400> 53998

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 atgcatttga atagattgga gaaggaagac cacatactca aagcttttga atatttcgat 180
 aaggatcaca gcggatacat aaccgtatag gagttggaag aagctttgaa gaagtatgat 240
 atgggagatg acataactat aaaagaaatc attgctgaag tagatacaga tcatgatgga 300
 agaattaatt accaggagtt tgttgccatg atgaggaaca acagccctga gattgttcca 360
 aatcggaggg gcattgttcta actgtcatgg acaatcacat tgaatacttt caagaacaat 420

ctggccttag acataat

437

<210> 53999

<211> 273

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-027-Q1-K1-C1

<400> 53999

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ccatggccat cattgatttc atcttggttt gctcaatcgt gtcataaaaa aaaaaaaaga 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa atggggacac 180
gaacccaggt gctctaaaat tagaacgacc agctgccaat tcaaagccta tctcactgag 240
catctagaat caatactaca tgcgcaggat aaa 273

<210> 54000

<211> 462

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-027-Q1-K1-C4

<400> 54000

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cagcctgcgg gcaaccccg gacggcgccg gacgccgtgc ccgataccta ctacggggct 180
ccgagggccg cgtgaagcgg cgcgctgtgc ctacagcggg atcttgccgg tacagatgtc 240
cttgaacatc acccagtcgc ccatcaagct gtagatcgga tgccggggacg tggcggggcg 300
gttcttcttg aagaagaagt gcccgacca cgcgaaccg tagccgcaga ctacaggcgc 360
tggcagccac agtcagttgg cccttgcat cggcacgggt actcagtcta tcacgcctag 420
cgagcctacc aaatgcatac gccgcgacgt caggttcttg tg 462

<210> 54001

<211> 323

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-027-Q1-K1-D2

<400> 54001

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acttgctgca cgcaaggta gtcattaatt cactacacct ttaaagcacg ggtttcttca 180
tgcgtctcct ccacctgaaa tagcgagtgg tttctaccac tacaacgtgt ctttttatgt 240
tgtattaaga agagatattg tgtatgtgtg tgtatatata cacactaata attggaaaac 300
aaaaaatcgt gtttgaataa aaa 323

<210> 54002

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-027-Q1-K1-D7

<400> 54002

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cctaacaagc atatatatat gccatgtata cacatgacct aatgcatgca ttctagcaga 120
gaaaccctaa tcaacaaaga tcatgggggt gatgcatgga catggatgga ttgatcgatc 180
actgcaccgg aggtcgatgt ccatctaaat atgtaaagta gagtagctat ccggccgacg 240
atgcgcacgc ttgcgggtga aacatcgttt ttttttctct ctccgggtggg cggagggtcc 300
aaagattcgc cgattcggat ggacgagctg gt 332

<210> 54003

<211> 144

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-027-Q1-K1-F4

<400> 54003

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attattaaaa aaaaaaaaaa aaaaaataaa aaaaggatta attaaaaaaaa aaaaaaggca 120
aatttataat aaaaaaata caat 144

<210> 54004
 <211> 425
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-027-Q1-K1-F8

<400> 54004

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ctgctcagga tatcggaag ccaattattg cgtgggaaca ctgcaaagta taagagagac 120
tctgttgagt ttgaatcact tactttgggt agcttaccac ccacctttca agggatgaaa 180
gtctatgtca cagaggagca agagctgata atggaacat ctcttaaatg ggctgcaaac 240
ccaaatatta ctgttgctgt aaaagcctat ggtttgaaag ctactatcca cattgtggat 300
ctacaagtct ttgcatcacc tcgcattact ctgaagccat tggcgctac attttcttgc 360
tttgcaaaaa tccttgctc actcatggag aagccacatg ttgactttgg gctaaaactt 420
tttgg 425
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<210> 54005
 <211> 420
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-027-Q1-K1-G8

<400> 54005

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gggtttcttc aactcctggc aacctttggg attggtgctg aattcaatga agatgacttg 120
tgcaaattgc ttccatatgt cagtcgtcgt cgtcagacac ctgaactttg tcgattgctt 180
gggttgctgc agaaaatgcc aggtgtcatt gaagttctgg tggaaagtgg aagacctatt 240
gatgcaatta atttggctta tgtgtttgag ctactgaac aatttgaacc agtacacctt 300
cttaaagcat atctaaggga tgtaagaaa atgtcacacg ccaggaatgt caaaacttct 360
cctggagcac agaatgagat gaatgaacgt gagttatctg ggctgaaatc tggcattaag 420
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<210> 54006
 <211> 459

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-027-Q1-K1-H3

<400> 54006

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 acgggaggtg gcgggggcta cggcgacctc cagcgcgggg gcggcatgca cggcgaggcg 180
 cagcagcagc agaagcaggg cgccatgatg acggcgctca aggccgcgac ggccgcgacc 240
 ttcggggggt cgatgctggt gctgtccggg ctgatectgg ccggcaccgt gatcgcgctc 300
 acggtggcca ccccggtgct ggtgatcttc agcccggtgc tgggtgccggc cgnccatcgcg 360
 ctggcgctca tggcgggcgg gttcgtcacc tccggggggc tcggcgctcc tgcgctgtcc 420
 gtgtttctct ggatgtacaa gtacctgacg ggcaagcac 459

<210> 54007
 <211> 460
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-027-Q1-K1-H5

<400> 54007

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 tgtgctagag ttgatggaaa ttgggcaaac aaatagagca gttggatcga cagctctgaa 180
 tgaaaggagc agtcgatctc acagcattct aactgtgcat gttagagggg tggatttgaa 240
 gaatggatct acttccagag gatgtctaca tctgattgat cttgctggga gtgaaagagt 300
 ttgagcgatc tgaagcaatt ggagatagat taaaagaagc acagtatatt aacaaattcc 360
 tctttgctct gggatgatgtg atttttgctt tggcacataa aaatgctcat gttccttatc 420
 gaaacagcaa gctgactcaa gttctacaga actctttaag 460

<210> 54008
 <211> 94
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-027-Q1-K1-H7

<400> 54008

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taaaaaaaaa aataatttaa aaaaaaaaaa ataa 94

<210> 54009

<211> 273

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-028-Q1-K1-E4

<400> 54009

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agaaacacta agatattaaa taaaggggggt actacaatgt ttatgtggcg atatcaagta 120

ctcttacatg cgaatgtata actttccaaa ggagtatagt aaattaaggt aactggccag 180

atcattacaa ggtcctgatt ggcaaacct atacctatct gatgttaatc agattaaaga 240

aagatcgaat ttccccagct tgcagtatat cca 273

<210> 54010

<211> 260

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-028-Q1-K1-F7

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cctgaattcc ctggctcgacc cactcgtcct aaaaaaaaaa aaaacaaaaa aaaaaattaa 60

aaaaaaaaaa aaaaaaaaaa atataggaga atttttttaa atacatggga gaaaaataaa 120

taaaaaaaaa aaaaaaaaaa aataaaaaat aaaaaaaaaa atttatcaac tttagggtc 180

ctcataattc ttttcttttc ctcaattatt tttcttccat attattttcc tttacccta 240

tttaattcat ctccaatatt 260

<210> 54011

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-028-Q1-K1-G8

<400> 54011

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agtgatccag cagatcgtgc cagacaaggg tgatctattg caggagtcac gggaaacttc 120

aagatgggtc agattaagaa agaccagtgc atccagttcc tccgcaatta cgtcggagac 180

gaagtgctga aaaccgtggc caagaaactt cgacgatgct aaatttctag tgcgcggtgc 240

gacatcatta tctccttgat ttctactcta gctgtctgta gtagtgctca gtagagatga 300

ggaggttcac ttctgtttct gttgattcaa gtttctgtca agggcttata gggggtttgg 360

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-028-Q1-K1-H8

<400> 54012

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aaaaaggggc gggcgttctg gaagaagcaa gatgctgtac acgtgcatgc ggggtcatgc 120

ctcttctatg gggtcaccta aatgcatt 148

<210> 54013

<211> 155

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-A5

<400> 54013

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tggccgcagg ottacaacgt ccaaggctgg caaaa 155

<210> 54014
 <211> 384
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-B3

<400> 54014

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 cgcattcgta ctaggcggcg ggctgggggtt cggcacctgc ttactcaaatt ggctggcctt 180
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 acacttccca gattgggttag agct 384

<210> 54015
 <211> 313
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-B7

<400> 54015

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 gcaatgctga caacagtagg aatgacactc ttgcgaggat tgattctttg cacatcactt 180
 cagatcaagg tgggggcaac atgttgacga ggtacgatgg cacgaacagc agctgcaacc 240
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 ggtgctactc tgt 313

<210> 54016
 <211> 105
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-C1

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<210> 54017
 <211> 355
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-029-Q1-K1-C2

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 aacctcatcg tcgcaggttt tatccaagca atctgagaag gaagatatgg aaataaacac 180
 aatacttgag gaagaggcgc tgatagcagc tcacagaaaag gaaattgaaa gtacaatgga 240
 gatagtacga gaagagatga atctattagc agaggctgat cagccaggta gtcttattga 300
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<210> 54018
 <211> 304
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-D9

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 tccgggttagc gcatgaaggc cgactcgagc gggctggtca agctccctcg ggtgcttggg 120
 cttcgtcttc atgtctgtat ttaggcagga gtaccacgtg catcactctt gcaacaatag 180
 cgttgctgcc tttagcaagg gagctggtga aaagtcgctc tttatgtctg agcatgagaa 240
 gcaaccctat gtggaccaat ctgggcagta taagcatgac tatgatgaag actaccgcaa 300
 attt 304

<210> 54019
 <211> 75

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-F3

<400> 54019

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aaaataaaaa aaaaa 75

<210> 54020
 <211> 190
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-F8

<400> 54020

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aaaataaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaagggg cggccgtttt 120

aggggttcca agcttacgtc cgcttgcttg ctacgttata gctcttctat ggtgtcacct 180

aatttcattt 190

<210> 54021
 <211> 331
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-G4

<400> 54021

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gtgcggattt atggtgaaaa ttcagagctt ttaccttcag tattattatc attgagtggc 120

gagaaagggg acagaaataa ctcaattagt agttctgggtg gaaccttcac ctttgacaac 180

ttatttcctg gaagtttcta tcttcgagca cttctaaagg gatattaatt taattcgtca 240

acagtagcta ttgagcttaa ttcttgagag atttaggagg gttaatttcg tgcaaacaga 300

gtggcttaca ctgccatagg ttttgtgaca c 331

<210> 54022
 <211> 441

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-029-Q1-K1-G6

 <400> 54022

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 cacgaaaggt tatgcagcca agtttgtaaa agaatacatt gaggaatcaa aacctctttt 120
 tgcagttggg gaatactggg atagctgtga atatagcccc cctgactacc gactgaacta 180
 taatcaagat atccatagac agaggattat taattggata gataaactg gaggactttg 240
 tgccgcattt gatttcacga caaagggcat tcttcaggaa gctgtcaaag gagagtgtg 300
 gcgtttgcga gattcagaag gaaaaccacc tgggtgtgat ggatgggtggc cttcaagatc 360
 agttacattt attgaaaatc atgacactgg gtccactcaa ggtcattggc cttttccgtc 420
 agatcatatt atggaaggtg t 441

<210> 54023
 <211> 439
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-029-Q1-K1-G7

 <400> 54023

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 gttgcagcat caaagctccg ggcagttcag acaaggactg aaaattcacg tggcttgtgg 120
 caaccgttca ccgcccttct tggggatgct cctagtgttg acgtcaagaa gaatgtgatt 180
 gtggccatta cctctgataa gggactctgt ggtggtatta attcaacatc agtgaaagtt 240
 agcagggccc ttcacaaatt gacatctggt ccagaaaaag aaaccaagta tgttatatta 300
 ggagaaaagg gcaaagttca gctgttgctg gactcaaagg acagcattga aatgactgca 360
 actgaactgc agaagaccct atcaactaca cacangttgc cgtgctcgcg gatgacatat 420
 tgaaaaatgt ggatatgat 439

<210> 54024
 <211> 303
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-H11

<400> 54024

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tgggaggaac agacttcaat cacgccgggtc aacaagtctg gaaactgcac atatactggt 180

ggggactcgc tcgggaaaac aacgctgact acacttctgg cttgcatata caattatgag 240

agctggcaga ggtacaagaa aaagatgggtg gcttgcgaga gttgattgtt gcgaaagctg 300

att 303

<210> 54025

<211> 488

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-H7

<400> 54025

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gccgcactgc gcaccgagcg ggcgccgggc ggacgacgaa gcggcgaggc agtgactggg 120

gagagatgtc gggcggcagg aggagggggc ttgtgtggag cctccccgtg gcgaggtcgg 180

atgcgctcgg caaactgggc cctgccttcg gcatcggcgc tggctgcggc gtgggtcttg 240

gcttcggcct catcggaggt gcaggcatcg gagctggatt ccctggttta caattggggg 300

ttggagctgg agctggatgt ggaataggaa taggttttgg ttacggcttt ggaaaaggcg 360

ttgcatatga tgaaagtgga aagtattcga acatcaggag accggtccag agctccagaa 420

gcattgcttt cgatgagagg ttcgatatca tgtttgacga actgatggag agcaccagga 480

aactggtc 488

<210> 54026

<211> 248

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-A1

<400> 54026

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gaaggcgtag agtgatctcc tgtcttagaa caatattacc attagcaatc gtgcagttag 120

actagatcat gtttagtgta gatccgcaat gttcttgctc ctgcagccat ctggaacggc 180

gtatctagta catccgtgca ctttccttgc taattgcaaa aaaagcggtc taatcttttg 240

tttcaaaa 248

<210> 54027

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-A11

<400> 54027

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cccgtcgagg aggaagtacc aattgggttcg gcaaaagttc gagctgtctt tagtagtggc 120

agtggaaagg tggccggatg catgattaca acaggaaaag ttgttcaaga ttgtaatgtg 180

cgggttcttc gtaaagggaa agaagtatat gtgggttcgc ttgattcctt gagaagggcg 240

aaagaaactg tgaaggaggt tgggtgctggg ctagagtgtg gtattggggg agatgacttc 300

gatgaatggg aggaagggtga catcatagag gcattcaata cctgaataa gctgaatggc 360

gagctgaagc tattgtgctg aagctgttgt gagctggacc ggtggaccg 409

<210> 54028

<211> 282

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-030-Q1-K1-A4

<400> 54028

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ctagcatctt ggtcattcag caataatgat ggtcggccgg ttgataaatt atgnnggcag 120

aaatataatg ccacccttca tgctgatggt tcgattcttg ggccgcttac aaatcttcac 180

tatgctgggc ttaacttgcc agtttggctt ataccatctt tagttcacgc tatagagtta 240

tcaaccacag actcaattca ttttctgaag caatggttga ct 282

<210> 54029
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-A7

<400> 54029

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caagtaactc aactctccat tttgattgga aacaggtttc ttatttttat agttgaatat 180
aatactttgg tctgttctta aacaatagtc ttattacagg tagacccctt aggcaagggt 240
gaccctgaag tggaggattt acttctagaa atcgccgatg acttcattga ctcggtgact 300
gcatttgctg gtaccttggc aaagcacagg aaatcatcag gtgtcgaagc caaggatgtg 360
ttgctgcact tagaaagaaa ttggcattta tctgtttct 399

<210> 54030
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-B5

<400> 54030

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accatcggct gctactacaa gaataagagc tcaagagtag gaaccatcaa gcgtgagacc 120
gtgaccttgc gattgcaagc tgagatcaac cagatggctt cactcatgat caacaccttc 180
tactccaaca tggagatctt gctacaccag cttatctgca actattacga tgcgctggac 240
aatatcaggt tcgagagtct cactgacaag agcaagctcc atgcgcatcc tgagctccaa 300
atgcaccttg tcccagacaa ggacacgaac acgctctgca tcatcgactg cggcatcggc 360
atgacctgtg acgaccttgt gaacaacctc tgtaccatc 399

<210> 54031
<211> 274

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-B9

<400> 54031

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 tgccatcgag tacagtctct ttttcgcca ctgggggcca tagaccagcg tgacgatgga 120
 gggtccgcacc gacatgtaca acacctacct ggacggcacc aaagactacc tatctgtcgg 180
 catggcctct gtcccggcga tctacgccta cttagccgtc tgctatgtca tgttcctggc 240
 aggttgactc tacatcactc tctacctcaa ccga 274

<210> 54032
 <211> 356
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-C12

<400> 54032

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 gcggtgatga agagcagcac aatcgtcgcg cttctgttgg ctgttgccat tctgtcctcg 120
 ctgtctccat gctacgaagc cggcggctgc atcgggaaac ccaagaagtc accgccgccg 180
 ccgagaaggc catacctctc gtcctattcc gaggaccacc agaactgccg cttgatctgt 240
 agctcgaagg gtttcaagga cgggtggctgg tgtgacgaaa gcgtcgagca caaagtgtgc 300
 tgctgtccc attagaaata taatcgtgta tgttatgttg atgcatatat atgcat 356

<210> 54033
 <211> 400
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-E1

<400> 54033

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 agaacatgga ggaaacagtg gctaacgtgg agggagcgca gggccagctc ctgaagtatc 120
 tcaacagcat ttcgtccaac aggtggctga tgatgaagat attctttgtg ctgatggtgt 180

tectcatgat cttcatattc ttcggtggctt gaccttctgt accattctgc ccgaggtgct 240
ctggccgcta tgcgtagtat tcttttatatt ttactcatac tacaccgtgt acacaatttt 300
caccctggac gataagccat cggtcaccct tttgtggcca tgtaaattgg gaagagttcg 360
agtctgttta cgttactctt gattggcaat atcttcactg 400

<210> 54034

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-E10

<400> 54034

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tcataagcac acctagcgaa gcgcactagc aacgacctaa caacaatggc taccaagata 120
ttatccctct ttgcgcttct tgcccttggt gtgagcgagc caaatgcgtt gattattgca 180
caatgctcac ttgctcctag tgccattatt ccacagttcc tccttacagt tacttcaatg 240
ggcttcgaac acccagctgt gcaagcctac aggtacaaac aagcgcttgc ggcgagcgtc 300
ttacaacaac caattgcccc attacaacaa caatgcttgg cacatctaac catacaaacc 360
atcgcaacgc aacatcaaca acaattt 387

<210> 54035

<211> 283

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-E6

<400> 54035

tgcgtccttt atactagcac aggaatattt ttttaataat ttagaaatga acttacttat 60
atctgggtag ccacctacat cattctaaaa acttgattat tgcactataa ttcataacaa 120
atctaaaaga cggcactacc aatgatgggt agttactaga aagctgggtg ctttgtcaaa 180
ttatgttagt ataatagcaa ccattgacgc agttgtaaca gggttccacc gttacacgca 240
tcttgctagt aaaacgggca caactgtgct ttttttaata acg 283

<210> 54036
 <211> 66
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-030-Q1-K1-F10

 <400> 54036

 aaaaaaaaaa aaaaaataaa taaaaattaa aaaagcaaaa aaaaataaaa aagaagaaga 60

 agagag 66

<210> 54037
 <211> 314
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-030-Q1-K1-F3

 <400> 54037

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 cgtcatcgcg cgctgtctcc ccggccgcac cgacaacgcc gtcaagaacc actggaactg 180

 ctccctcaag cgcaagctcg gcgccgccga cgccgcgtcc ggttcggcgg ttgccgtga 240

 cgactgcgtc gccgacggcg agaccgaggc gcgccggggc aagatgatga tgatgagcat 300

 ctgccccgcc gaca 314

<210> 54038
 <211> 438
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-030-Q1-K1-F5

 <400> 54038

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 atgctggcta tcaggcgtcc atatcaatac tcagcagagt cttcgaagct ttgaacccta 180

 gagcctgcgc tgttgagata gaccccatcc agagtgtgaa cggaaggtg gctattgatg 240

 cattccgcct cattaatcct cacaccatga tgcttgcca ggagccacgt cagacaacat 300

caaatgttgg gcacctaaat aagccatcta ttcaggctct tatccatggg ttgaatagac 360
 actactattc aattgcaatc aattaccgga aaaatgagct tgaggagaaa atgctgttca 420
 acttgcacaa atagaaat 438

<210> 54039
 <211> 269
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-031-Q1-K1-A1
 <400> 54039

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 tcctaactct aggtcgttct agaacgggtca aggagttcct gtgtgccgcg aaagaaaaga 120
 aacgatcttt tcgtgtattt gttgctgaaa gtgctccaag atatcagggc catgttctcg 180
 caaaagagct ggttgagaaa agtgtacaaa ctacagttat aacaaattca gcagtttttg 240
 ctatgatatc tctagttaac acaatcata 269

<210> 54040
 <211> 65
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-031-Q1-K1-B1
 <400> 54040

ccggttcgaa ttgccgggtc gacgccacgc gtacgaagaa aaaaaaaaaa aaaaagttag 60
 gaatt 65

<210> 54041
 <211> 296
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-031-Q1-K1-B12
 <400> 54041

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 gctctagtgc agaagggaga catcactaac cttgctcaac aatacggagt gaacttgaac 120

gactgatgag tcattcgtgt ctttttcccc cttecccttg gagcgatggc gcaactggtg 180
 tgatgatgat ggaataggat agcatgccat agttttggtc cggtatctgg accctccctc 240
 tgggtgtaaag actatcccaa cttaggcttg ggcttttcag ctttctttgg ctctcc 296

<210> 54042
 <211> 416
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-031-Q1-K1-B5
 <400> 54042

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 gagcatgaac atgactaggt cgggatggta cagcttcaac atgtgcttga agttgcttac 120
 aacttaacat atgttctttc gtcataagaa cttgaattta cttgtgcacg atcatatgct 180
 atctgacatg aacaaagtgc ttgataaact gctaattgta atgctctgga ttatacattt 240
 ggaataaagg ggtttttgat aattgggtcca atattaattg cccttcttaa catttgcctca 300
 ttctgaattg attattgttc ttgccctggt tctgctcatt aatctcactt cttttttttt 360
 ttactttcat ttggtttatt tcaattgctt gtgtattttt gtccgttttt tttatt 416

<210> 54043
 <211> 401
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-031-Q1-K1-B9
 <400> 54043

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 gcagtgcacg acaggccctc ctatatataa agtgatgttc tgatacactt cgttcctttc 180
 atatggaact ataaataaga gcaggtaaag aatcacttct aaggaaatac agatagagca 240
 agaagcatgg agcctccgag tgagacaaca ggagccaagt actaactgat aaaaaagagg 300
 atgccgaaag ggcactctct ggatctttct aaaatatggc tgctttgcgg tatttgaaca 360
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<210> 54044
<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-C1

<400> 54044

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ctataaaaaa aaaacaaaaa aaaacaaaaa aaaaaaaaaa aaaaaaaaaa aaacaaaaat 120
aaaataaaaa aaaaaaaaaa aaaaaaaaaa aaaaagggcg gcccttcaaa aggatccaaa 180
cataagtacg cctgcattca acgacatatc ctttatatag ctataactta attaaattaa 240
ttgacccttg ttttaciaag tgagaactgg caaaaccctg attttaccba actaaatgtc 300
atactactaa atccctatct caccaacaga cataaaaacc aaaaacccca tacagaccgc 360
aattccaa 368

<210> 54045
<211> 85
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-C4

<400> 54045

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tcatatcgct cacgctttcc acgac 85

<210> 54046
<211> 341
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-C9

<400> 54046

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catcttctgc gtcaccgtct ctggccagga gatctccaca cgaccattcc acctcgtaga 180

ctgggtcgtat ctctaacgga accgctttca gtgggttcaa tagcccgacc caggccccat 240
 gtcttggttaa caagtacatg aaaaaggaca ttaagggtgga cgagtacatt acgcacaaca 300
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<210> 54047

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-D5

<400> 54047

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 tgcaggatgc tggcataaca gacctgacac aatttgccctg gggccttggt aatgatacat 180
 acaagatgga ctttatectc atataccctg cctacatgat tgcactggcc tgcataataca 240
 tagcgagtgt attgaaagat aaggacacca cagcatgggt tgaatagctt cgggttgaca 300
 tgaacataat tcaagaatat ctctatggaa atattagact tctatgacac ctacaagatt 360
 gatcctcaaa ggggcatccc tgaggattag ataagccccg tgatgaacaa tttgccggca 420
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<210> 54048

<211> 292

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-D7

<400> 54048

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 cacggtgggt aacatcgtaa ctggggacaa catgcagact cagtgggtgc attgacaatc 180
 aagcactttc atgccttttg aacctactga ccaccaacca caagaaaagc atcaagaaaag 240
 aagcatgctg gacaatctta aacatcacag ctggtaacag ggaacagatt ca 292

<210> 54049
 <211> 429
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-E11

<400> 54049

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 aagaagcatc tgaagggtgca gcagcctgaa gagcccgaac acacagccac aatcgtctac 180
 attgggcata tcccccatgg tttctacgag gacgagatga aagggttctt taagcagttt 240
 ggggatatta agaggcttag gatcgctcgt aaccgcaaga caggaaagtc caagcactat 300
 ggattcattg agtttgagaa cctgctgtg gcaaaggctg tagcagatga gatgaataac 360
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 aaattatgg 429

<210> 54050
 <211> 463
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-F6

<400> 54050

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 aggcaggagg cgtacgtgtg cgagtgagtg ctgctgctgc ggcgaccgtg tgaccgtagt 180
 cgttatttgt gtgtacggaa taaagtgggtg agcgctgaga cgtgcgtgtc agcctagtaa 240
 taactaaaat aatggccgtg ttcacgtaac gtgctcgacg tatgtaccat cgtgtgtacc 300
 ggccgtacgt atgtacaagc cgagtgcaat aatacagtac tatgtgtatc attaaaaaca 360
 caccaccgaa tacagaaaag gacacatgct gctgctttag taatgctgct agaaaattgg 420
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<210> 54051
 <211> 427

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-031-Q1-K1-G2

 <400> 54051

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 cctcatcggg gcagttgatt ctccgagagg ctctaaaact gctgccttta tatactctgg 120
 cactggtaaa aagtgtgaagc ttgagaactg atgggagatt agatgaccgt tcctattgga 180
 tatctctggg ctcgctcagtt tctgtagtac tagctgttcc tctgggtgttc cctagattga 240
 ttcttatcca tgatctcacg tncagggatg atgatgatcc ctttgtacca agtccactta 300
 tgctcaaaaa gtgaaatgta caagaggatg ggggtctatct attggaaaac ggtgaagatg 360
 gtctagtcta cgtaagaaac atggtaaatac cggctaccct ggaacaaata ttccgtgtct 420
 cttctttt 427

<210> 54052
 <211> 289
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-031-Q1-K1-H12

 <400> 54052

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 ccatatgctg tagttacacg aagtcgagag cgattacaat gtttcttgct ggctgcac 120
 gttgttctct agatgccctt tctttcttgt tatttttggt tctactacta ctacaagtag 180
 acgatgtttt gtctgatga tgaatgatac agataagtca tatatatcca catatttcat 240
 ttttgtcaaa aaaaaaaaaa aaaaaaagaa aatgaaaaaa ttaaggatt 289

<210> 54053
 <211> 180
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-031-Q1-K1-H5

 <400> 54053

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 ggtaaaatca aaagaaagga aaacaggacc gcctcttttag aggatccaag tttcacgaca 120
 catccttaca acgctctaata tcttctataa tgacacctaa atgcaattca ctgcccacat 180

<210> 54054

<211> 463

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-H9

<400> 54054

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 tttgtgcaag cgccactagt gcgacgcata ttccagggca cttgccacca gtcattgccat 180
 tgggtaccat gaacccatgc atgcagtact gcatgatgca acaggggctt gccagcttga 240
 tggcgtgtcc gttcctgatg ctgcagcaac tgttggcctt accgcttcag acgatgccag 300
 tgatgatgcc acagatgatg acgcctaaca tgatgtcacc attgatgatg ccgagcatga 360
 tgtcaccaat ggtcttgccg agcatgatgt cgcaaatgat gatgccacaa tgtcactgcg 420
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<210> 54055

<211> 242

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-A8

<400> 54055

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 cggtaccct ggccctcacg gacctaaacta gtgcgggggac agagcgcaca agtactactg 120
 gccggacatc gcagacgcgc actacacagg ctgtctctac ggccggcatct acatcagtgg 180
 catcatacgg gaaggtcatg ccgtggcaat cggagttcca ggtcggacct gccgtgctcg 240
 tc 242

<210> 54056

<211> 183
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-032-Q1-K1-B6

 <400> 54056

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 aataaaaaata aaaataaaaa aaattactgg taaaggaaaa aaaaaaaaaa aaaaataaaa 120
 atacaaacat aataaaaaaa aaaatacata aactaacata taaaaaata tctacatctt 180
 ttg 183

<210> 54057
 <211> 312
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-032-Q1-K1-B8

 <400> 54057

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 gcgtcttcgc gagacaagga ggaccacctg gcgagaagct gctgcacgcc gcgggccgctc 180
 tgcgagagca gcagccagct gagcgagcca ccaggaggag ccagcatgag ggccatgagc 240
 gtcgccgtcg ncgccgctgg agcgcccatg gggttattcc agaacgagcc tggccacgac 300
 cagcaccacg ac 312

<210> 54058
 <211> 440
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-032-Q1-K1-C1

 <400> 54058

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 ttcgatagtg cagcagagct aagagaggaa ggcgaaaaag ctcgggttga actagcagaa 120
 gccgaacaaa agatgcaatt ggctttaaaag gaagcagaag aggctaaagc agctgaagca 180

agagcccttg atcagatcaa gcaactctcg gatagagcaa gtgctgctag atcctcaaca 240
 tccgagtctg gagcaattat cacaatttct aaagaggagt ttgtatctct cagccgaaag 300
 gttgaggagt cagagaagtt gagtgatatg aaagttgctg ctgctatggc tcaagtggaa 360
 gccatcagag ccagtggaaa tgaggcaatc aagaaactag aaacttgccg caggaaatgg 420
 atgacatgga attgcaacag 440

<210> 54059
 <211> 350
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-C2

<400> 54059

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 cagcgtattc acgagacaag gaggaccacc tggcgagaag ctgctgcacg ccgcgggccg 180
 tctgcgagag cagcagccag ctgagcgagc caccaggagg agccagcatg agggccatga 240
 gcgtcgccgc cgccgtcgct ggagcgccca tgggggttatt ccagaacgag cctggccacg 300
 aacactacca cgacgacagc ttcatgagcc tgatgctcaa ggagcaacga 350

<210> 54060
 <211> 392
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-C3

<400> 54060

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 taatttttaa aaaaaataaa aataaaaaga gataaaaata aggcaacaca catatcgtgc 120
 gcacaagctt aaaaaggcgg accagttcaa cgataacgac cttatggaga gcgtgactcg 180
 tagctccttg ttcaacttgg ttgtacattt aagtatagtg cgcaaaacac ctttcgtttc 240
 caccatgttc tccagctaca tgcaatacat cttcggttgg atcctcttct tcggaatacc 300
 ctgtatcgtc atcgtcttct caatcgttct gttcctgctc gggaccattt cataccgctt 360

gtacacgacc gttgcggaca gccccttctc tt

392

<210> 54061

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-D3

<400> 54061

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ttatctgata tatactacaa cagctgatgg agcaagggaa atgacttcac acttttttat 120

tgattctgaa tctgatgcat ccttagtgta gcactttaga aggttcatta agctgggata 180

ttcttgcatg cctcacgaaa atcacttttc tatctagaga attaggttta ggtaaagaca 240

ttaccttata ttcgaccatc atgtcaagaa tagcagcatt ttagatagca tatectcgat 300

atgtcgatac cattttgttt tataaaaagt gatgtttcat gtcgtatatt tgttaacaaa 360

agaacatttg cataatactc 380

<210> 54062

<211> 342

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-032-Q1-K1-D4

<400> 54062

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cacctcttac gaggcgacg gcaacgtcgt gaccgccaac ttcacctgct acgccggcgg 120

cgccacgggt ggttcgggct ccttcgcgc ctacgccgac gagaccaacg tcccggactc 180

caccttcacc aactacgacg ccgncgccaa cggccgggcg cggagcttcg cgtectactc 240

ccaggaggcg aaccatgggg agaacggctt ctccggctac ggcaagaacg gcaacggcgt 300

gcgcgagacg ttcaagtctt acggcaatga gtccaacgtg ct 342

<210> 54063

<211> 275

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-E11

<400> 54063

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aagctcatct tatcatggtg aacgaggatt ggctcgtagt tacatggatc tccatatcag 120

tcctgtttat ggacggcgat ggctgtacga aacttggcgg cggtgccatg gttcagaaag 180

gtacattggt tggatccgac actagcatgg tgctagagac acagaccgtc ggagcaggta 240

gcgtggcatc caatctagca caatgtggca cttgc 275

<210> 54064

<211> 322

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-E2

<400> 54064

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agctcactgt gcagctgaag aagctcgctg ccgccggcaa gctgacgagg gtgaagaact 120

ccttcaagct gccggccacc gacgccaagc ccaaggccgc caagcccaag gcaccaag 180

ccgcgccc aa gcccaagccc tcgccgaagg cgaaggccaa gaccgctgcg aagcccaagg 240

cggcgtcgcc caaacccaag gcccaaggcca aggccaagcc tgtcgctcct gccgccgct 300

cgcccaagcc ccgcgggcgc cc 322

<210> 54065

<211> 409

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-032-Q1-K1-E3

<400> 54065

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ttctgtgtgt tcccagcag cgcacggggg acagccccca gtcggcgggc attcggggcg 120

tgacggtgag ggcgtccgcg gagacgatgg cgacggagaa gctgggtatc aaggtggagc 180

gcaacccgcc agagtccgc ctctccgagc tcggcggtccg ccagtggccc acgtaagcga 240
 gctacccgcc ctctccctc ctcccgggcg tctcggtctc tgttctcgcc cgcggtccta 300
 cgctgctaca ctgcgcccgt gccctgacgg cgaatccgcg ctgggtgaatg aatggatggg 360
 tccgtccatc aggtggnggt gcgagaagag caagttcccg tggacctac 409

<210> 54066
 <211> 381
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-032-Q1-K1-F10
 <400> 54066

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 catccccacc gtgctcatct tcaagggcgg cgagaagaag gagagcgtca tcggcgccgt 120
 cccaaagtcc acgctcacca cctcatcga caagtacatc ggtagctcat gagcatgcca 180
 tgcattgatg catcgacgac taaacacata tgtgtatctc tagtagcctt tgcatacggg 240
 atatgatcaa ttcaagcagc cagccgtctg ctactgctgn gttatatata ccatacctnc 300
 atgtcgaatt ccgaggacct ttaatagggt caagtcacga attccaatca gtatatatat 360
 atcaatgcct ctgggtggat t 381

<210> 54067
 <211> 434
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-032-Q1-K1-F2
 <400> 54067

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 actcgtccaa caatggcagc caaaatatat ggctactta tgctccttgg tctttctgca 120
 tgcgtgatt cagcgacct cttcccgcaa tgctcgcaag ctactatagc tttcattatt 180
 tccccgaacc tatcaccagc cgcgtctacc gtatgtgaaa acccaattct tcaacactac 240
 aagatccaac aggcaatcgc agctggcatc tcacctttat cacccttgct ccttcaacaa 300

tcatcagccc tattacaaca attacctttt gagcatttat tggcacaaaa catcatggca 360
catcaactac aacaacgtgt gctagcaaac ctagctgnct actctgagca tcagcagggt 420
cattcattca acca 434

<210> 54068
<211> 360
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3079-032-Q1-K1-F3
<400> 54068

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agctccaata ctttccacgt cgaaacgaca gcaacggaag ccgcttaatt tgccggtcat 180
cacctcgggt ctgtcgccca tgggtgaaac atgcacgaaa acacggtggt agtagtagta 240
gaatgctttc tcttgtacat cgatttgttt ttgtgaatat tgcaaaatcg gttttagaaa 300
tccaatgtca tggtgaggcg gccgttgatg cgccagagcc ctgctttgga gctccgacng 360

<210> 54069
<211> 288
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-032-Q1-K1-F5
<400> 54069

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atctatcggg cgtggcgatg ctgcatatgg gggcagcgtg ttatgaatct ttgcaagaaa 120
gctacaatac tttccacgct gaagctgaca gatgcgcgtg gcaggtgaat tggccggaca 180
tcacctcggg tctgtagtcc atggtggaac catgcactac aacacagagg tagcacaagc 240
agaaagcggg ctcttgtaca tcgagatgac aatgtgaata ttgcaaaa 288

<210> 54070
<211> 206
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-G11

<400> 54070

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attacatatc tgatacccat agattacagg gaaatatgat gatatcgata gggaagtgaa 180

aaaaagggtt aagagaaatc gacatg 206

<210> 54071

<211> 337

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-H12

<400> 54071

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tcaagtccaa cgaccccgctg ggcttcaacc tcgtcgacgt cctcgcctgg ggctcgctcg 120

gccacatcgt cgctactac atcctcgcca cctccagcaa cggatacgac cccaacttct 180

tctgagcggc cggctgcggg catgttcttg agcctgectg tattctactc cgtgtgtgtt 240

gagccatata tctgatgctc aaggattggt taatttgaac aagtgggtgca actgcgcgtg 300

tacatggatt tgctcttctt ctatgtctct gtcaaaa 337

<210> 54072

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-H2

<400> 54072

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gcaagaacca acttttagtg cccaatgcgg ccaagattgc caacgcctcc gaaattccgg 120

ttctcgcgt cccactagc acttccaagg ccgcaatcct ggcccgaag gccgcgcttt 180

ggcgggacgc ccttgteccc gttgccggcg ccttcgcgtc ctgtccgctc ccttcctctg 240

cggcgggagg cgacgggaaa gtgagcctcg agtccatcgt ggtggcaatc gacgacttca 300
acaatcgcaa ccccttcttc gtggctgggg tctgtgtcgt gtggctagtgt gtgatccgcg 360
tcctgcagga gtacgtcttc aagaagtaca agcccgtagg cgccatcgac gcgtt 415

<210> 54073
<211> 430
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-032-Q1-K1-H4
<400> 54073

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ttcgtgaggt tctccgggggt tcgggttgggt ggggtgagcgg atcgagatgg cagcgtcggga 120
tgttgagtac cgctgcttcg tcggcggcct cgccctgggccc acggacgacc actccctaca 180
caacgccttc agcacctacg gcgaggtcct cgagtccaag atcatcctcg atcgggagac 240
gcagaggtcc cgcggcttcg gcttcgtcac cttctccacg gaggaggcga tgcggaacgc 300
catcgagggc atgaacggca aggagctgga cggctcgcaac atcacctca acgaggccca 360
gtcccgcggc ggccgtggag gcggcggctg tgggtacgggt ggtggtcgtg gaggcggcgg 420
ctacagcgggt 430

<210> 54074
<211> 399
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-033-Q1-K1-A11
<400> 54074

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tggtgattcg attcttctct ggtgcactgt tcttgtactt gaattcagct cccatctagt 120
gtgttagcca cacctcgccc catccgaagt cccacctaaa gaagcagaga gatagaggca 180
acaatggcga aagacgggct gagcaagctc cagcgcata tcaacaggta aactcgtcg 240
accgcgcatc tctcccacgc cccgtctgca tcatcagctc cactacggct ccactactg 300
agactcacac tgcgcctcga tccacagcgc agacgaggtg tccaactgcc tgcacccgggt 360

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399

<210> 54075

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-A8

<400> 54075

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gaccttgctg gtgagttcta ttcaagaaca gaggaccagg tcatcgcata cattccaact 120

atthttgctgg aatttgagaa tgggtctcaag aaactgtatg accaaggtgc taggaagttc 180

tggattcaca acacggggccc cctcgggttg ttgcctcaaa acattgccct cttcggcaaa 240

gacccatccc aactggacga gctccactgt gtggcgaagc acaaccgtgc cgcaaagctt 300

ttcaacttac agctgcacgc actttgcacg aagctgaggg cagaattcga tggagccagc 360

atcacttacg tggacattca cacgatcaaa 390

<210> 54076

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-B2

<400> 54076

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aaggacatcc tgaacctggt gtacatctgc tagtgcaatg gcctgaccga ggtggccaac 240

tactggaagc aggtgatcaa gatcaacgac taccagaaga gccggttcgt gaaccgcgtc 300

ttgtcgtcca tgttcaacac cgttgccggc aagaagatcg cgtcctcgg cttcgccttc 360

aagaaggaca ccggcgacac cagtgaagcc ccggccatcg atgtctgcaa gggcctgctg 420

ggtgaca 427

<210> 54077

<211> 339
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-033-Q1-K1-B8

 <400> 54077

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 cctcctgtta ctctcgggtt gcgcgtccct cgcgatcgga ggagcagcca tggccggcca 180
 cgtcctcggc ggcgtgaagg agaaccacgc cgcgccaac agcgccgagt ccgacgggct 240
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 cgtggtggaa gccaaaggagc aggtggtggc cggcacgct 339

<210> 54078
 <211> 393
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-033-Q1-K1-C11

 <400> 54078

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 tcagcggcac ggcgttcggc gccatgggca agcccggccg caacgacgag ctccggcacg 180
 ccggcatcat cgacatccag ttcaagaggg tgccctgcaa ctaccccgga cagaaggtga 240
 cgttccacgt cgaggagggc tccaaccccg tctacttcgc ggtgctggtc gagttcgaag 300
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<210> 54079
 <211> 434
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-033-Q1-K1-C12

 <400> 54079

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tccagatggt gctgaagcac agggcccagt tgctgaggag gacgacgacg atgatgttga 180
cctttttggt gaggagaccg aagatgagaa gaaggctgct gaagagcgtg ctgcagctgc 240
caaggcttct ggcaagaaga aagaatctgg gaagtcatca gttttacttg atgtgaagcc 300
atgggacgat gagactgaca tggccaagct cgaggaagct gttaggagtg tccagatgga 360
agggctgctc tggggcgcat tcaagcttgt cccagttgga tatggtatca agaagctgca 420
aatcatgatg acca 434

<210> 54080
<211> 261
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-C7

<400> 54080
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tccacttctt cctacacact ccgggacact gctcactatc aacttgtgac taacatgcc 120
agctaaactt cctcttataa gagacctcaa ttccacctt ctccctctca ctactacc 180
aaaccttaaa cactatcccc cacatgttgt atcacattta cctgactaac tacacctacc 240
acataaacct caacagcttc a 261

<210> 54081
<211> 116
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-033-Q1-K1-C8

<400> 54081
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cattaataaa gacatagtag tatcacgttt ttggaaaaaa aaaaaaaaaa tcaaca 116

<210> 54082
<211> 305

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-033-Q1-K1-E10

 <400> 54082

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 acaaccttgg cagatctttt tattcttgtc tttattgctg ggagcactgt agctttaaac 180
 ctacaagtag tgcttgaatg agatgagatt catatcatct cctgtgggtg aatgtgaaat 240
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<210> 54083
 <211> 475
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-033-Q1-K1-E12

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 aggtgggtgt gactttatag tgtactttgg acagtcagaa accttcagc ctcagcatga 180
 gtcccattag ttccactggc catttcttga tgctgttctg gttgataatt ttgttgacct 240
 tgectcattg ccgtaatcta caataaggaa aaaaagctat tctttatttc ctttgggaaa 300
 tattctgatc tgactagcca agcgatagaa taattaactc ttgagggtta gttatattat 360
 tcttaatagg gctgacatag ggaatagtta gggtttcaat gtttcatttc ctttccaagc 420
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<210> 54084
 <211> 349
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-033-Q1-K1-E5

 <400> 54084

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 ataatgagta gctttgggag gaaaaactac cgtgatgctg tcaggaaatc atggcttcca 180
 acaggttcaa tgctgaagaa actagaagaa gaaaaaggca ttgtagtacg ttttgttgtt 240
 ggaagaagtg caaatcgagg tgatactttc gatagggaga ttgatgacga aaataggagc 300
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<210> 54085

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-F12

<400> 54085

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 caggacttct tcaacggcaa ggagctctgc aagagcatca accctgacga ggccgtggcg 180
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 ctgctccttc tggacgtcac cccgctgtcc ctgggcctgg agactgccgg cggcgtgatg 300
 accgtgctga tccctcgcaa caccaccata ccaacgaaga aggagcacgt gttctccacc 360
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<210> 54086

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-F9

<400> 54086

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 tgtccaacat gctcatgtgg ctgccagaac ccaagtgggt caaactgtgt gaatgaggat 180
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caatgcactt cccacatgtg cccgataaga atccactggc atgtgaagct caactacaaa 300
gattactgga gagtgaaaat cactatcaca aacttcaact tccgcatgaa ttacacgcag 360
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<210> 54087
<211> 370
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-033-Q1-K1-G11
<400> 54087

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atttcgtgga gacgactgga tctccggaat cgcggcccta ccaggctacg gccaagtctg 120
cttcagcccc taagcctact caagctcctc caaatgggtg aatacggaaa cccaatcttt 180
gtaaacaatt tacttttaac gctcagggtt taatggaagt actcatgac caacttattg 240
atgctaacct acttcattca tcgacatgcc actgctcgac gtcgggggct aaactataat 300
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ggtattacaa 370

<210> 54088
<211> 429
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-033-Q1-K1-G12
<400> 54088

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acattggcac ccccggaag ggtatccttg ctgctgatga gtccactggc accattggca 180
agcgcccttc cagcatcaat gtcgagaacg ttgaggagaa ccgccgtgcc ctccgtgagc 240
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ccctgtacca gaagaccaag gatggcaagc cttttgttga tgcctcaag gagggaggcg 360
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ccaccacccc

429

<210> 54089
<211> 355
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-G7

<400> 54089

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tagccgcaaa acgcggacgc gaaattgaag gctctccgct acattgtaaa aggcaaggaa 180
ctctgcatct ggtacacata ctctagcata gatgccgacg cataacctac tattgatgat 240
gatcgatacg acttgcaatt ctactatctc caatgtttgg ccagagacta ctcttgggtgc 300
ctacgagaaa gacaagcatg actttggatt ctattgtagc ttattgaagc cattc 355

<210> 54090
<211> 341
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-G8

<400> 54090

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actgcgctcc tgggtgctgaa gcctgggacc attggagcct ggagctccta gtccggctgc 120
gagtcatacc cagatgcatg aaaactcgtg aacgcaatag acatcagaca ctteggctac 180
tttcagcgca gagccatgcg tcagttcatt gacttctagg ctgcaccat ctgtcagctc 240
accagccat gccagcggca gtcccttcag cacgaaaaat acaagggtgca ctcatacaat 300
ataaataggc tgtgtacttt gcattgatgg atgacatta t 341

<210> 54091
<211> 354
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-H2

<400> 54091

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acaaaatact gaacaataac aacgttttagt catgcactca aacaaagtcg acacttgact 180
cacaaaaagt atagaaagag ctatatcctg atgagcccta cgaatcggac ttcacaagaa 240
cctacgacac tgacgctgat gtcaaccctg catgatcaga cgatgacatt acctatgatc 300
tggtctcgac tggttaagaga caatcctatt tctatcatca agctggaaca ccaa 354

<210> 54092

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-B4

<400> 54092

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cgctcaagct cctcacttcc tgggagggca caccgtaacg ccaccatgaa cttcaacatc 120
acgaaccctt ccaccgtgtg ccaaagaag ctggaaatcg atgactacca gaacctgcgt 180
gccttttatg accgaatgat atcccacgaa gtcagtggcg atgctctggg tgaggagtgc 240
aagggtatg tcttcaaat catgggtgga tgttacaagc aaggcttccc aatgaagcaa 300
ggaatcttga cttctggacg tgttcgactt ctgctccata tggggactcc ctgcttacgt 360
ggttatggca agcgtaat 378

<210> 54093

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-C4

<400> 54093

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actatgacta tatcatctgc actagtatga ttacgtgcac aaagcgttac acatcattct 120
acaccatctg ctccataaac tccacctata aaatcttgat gaatcctttc actggcacca 180

gcactttcga ttccagtacc tactttgctt gaaccatctt aattatatgc tacaacttct 240
aataccctac aagctgctgc ctaatgtgca ccaccaacaa tgtcatatgc tcaacctact 300
acacgcatta agctatcatg tctatctaca gctactttaa ctact 345

<210> 54094
<211> 404
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-034-Q1-K1-C6
<400> 54094

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ccaagggttg aagcacgtga ctcaagaaca gctctcgagc ctgcggcggt actgactact 120
acacgcgtgg gctacgtacc tacccgaggg caccgagcgt actgtgccgg acgtaccccg 180
tcggcgacga gcaccgatct gcgctacgac tacggcaact tctactcgta caagacgttc 240
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gacgacgatg tggccaaagg ctggtctgga atccaggcga ttccaaggac ggtgtggctg 360
gacccacgcg ggaagcagct gctgcagtgg cctatctagg aggt 404

<210> 54095
<211> 369
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-034-Q1-K1-D9
<400> 54095

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actaagccgt agcttgacag atatgctgat gtccatgttg acattcgact gagatgaaca 180
tatacacgaa tgcaattaac gtccacttac atacatctga tgaatcctaa gatgacatat 240
gtcttacacc ttctgagatt ccccttttaa cacatccaac ttgtgaaaga ccatctttat 300
acgccaccat gatctcttgc agctaataa aatacacatg gatcacgatt aacacgaaaa 360
gatgatgaa 369

<210> 54096
<211> 277
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-E1

<400> 54096

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ataatttttc ttatattctt ttttcatttt taattataaa atttttaaat ttcttttttt 180
ttttttaata tttttttttt tctatctttt ttatcttttt atttatcttt tctttttaat 240
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<210> 54097
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-H2

<400> 54097

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gaacagcatc cggtttcaag tcatagtagc ctcttatatg ctcacggaaa atacctctat 180
gttgatggcg acggatctga tcccgagaa tcatcaaacg ctgacggata taatgcagtg 240
gcaacggttg gagggtgctg tgaccacccg agaatcgtgt gcagtcgacg cgtgttccgg 300
atcgtacaac actggctgca ctctggagaa cctgaccctg tctacgacct gctgagcgac 360
tatgtcatat ttccaacact cttcgaaatc gagaaacatc ctgagaaaca cctggatgtc 420
acgttcgtaa cggaagactg ggagatca 448
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<210> 54098
<211> 284
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-H4

<400> 54098

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cctctgggac ccctttgagg gcttccccctt cggctccggc aacagcagca gtctcttccc 180
ctcgttcccg cggaccagct cggagaccgc ggccttcgct ggcgcgcgga tcgactggaa 240
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<210> 54099

<211> 113

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-H5

<400> 54099

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<210> 54100

<211> 59

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-H8

<400> 54100

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<210> 54101

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-H9

<400> 54101

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tcactggcta cgagcaccac ctgaggatta tggattgact ggggcagaag cgcgccgata 180

tgctcatgga ggcgctgctt gcggcgcttg ctgaggcagc attcgctcgtg ggctacgttc 240
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 aactgtcca caactgacgc tgcttcaagc gaaacccgct taagtggctc gaccctgacg 360
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<210> 54102

<211> 476

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-A11

<400> 54102

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 acatttaaca acacgcctct gataatgtca acaagatddd ggttggcaac aaggcctata 240
 tggacgaaag caagagggtt gtacctactg caaaaggaca agcacttgct gatgactact 300
 ggatcaaatt ttttgaaacg agtgcgaaga caaacctgaa tgtggagcaa gtgttttttct 360
 acatgcacg tgacatcaag cagatgcttg cggagactga ttcaaaggca gatgacatgg 420
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<210> 54103

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-A12

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 atacttgact gtgcatatca ctgtcccaat ttcaggaggt ctattataca tggaccaccc 180
 attgacctct gcacccttca taatacgcaa cataatcaaa tttcatgtgt tcttcacaca 240
 caagcacact ttctctcacg tgtaccggaa gaagacgaca gatgatctca tctcgatgcc 300

gtatatctag actctattca gctgcacgct gaagatactg tactcactgg tgaagaccaa 360
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<210> 54104

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-A7

<400> 54104

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ttggaagcac tcaagcacac ctttgctgac gctccagctt gtgggcaaac tgggtctcat 420
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<210> 54105

<211> 481

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-B12

<400> 54105

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tatacaatct tatcctccca ccaccatact actaacactt actaacctaa ataatcatta 240
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aagttctata cctacctcat actctactat aacatacata tccatataca ttacatata 360
ctcaaatact tatatactaa tgaactattc aatcattatt attaaacact cacatagagc 420

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t 481

<210> 54106
<211> 325
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-B7

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atgtggcata ctttctgata ctctgtactc gagaggattt tgttgtggat aagccacttg 180
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cacagtggaa agaattaatg gttgc 325

<210> 54107
<211> 460
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-B9

<400> 54107

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tctctggccc cggcgggtcc ccggccact cgtctccggg aggcggaggg gccggctgcg 180
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<210> 54108
 <211> 392
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-035-Q1-K1-C10

 <400> 54108

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 cccggcatac catcaccagg aggatgagct aggatagcct acattaccac atgcatccat 180
 tcgtacataa tcaagcataa tcacgtttct tgcattcaac tatataaagg aagtctaatt 240
 atatatctac agctggctgt aaaaatgctg ttatgtaccg caccacttcg attttttttg 300
 aactccact tgtgaatgat gtaaacttga ttgaattgaa ttatttgcaa tttggaaaaa 360
 aaaaaatatt tatttaataa ttaatatcc aa 392

<210> 54109
 <211> 241
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-035-Q1-K1-D12

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 catattaatc accatcagcc tctaccactc aactagcctc ctcgaaacatc attcattaca 180
 cactaccatc tctatcaaata tactcagcct ttcattcaaga ctcaattctc ccaatatata 240
 c 241

<210> 54110
 <211> 399
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-035-Q1-K1-D6

 <400> 54110

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 atgcttgctg tgggtgtcatc aagaaggcaa acgtttcttg cttgtgctcc aaggcacca 180
 aagaaactga gaaggttggtg tgcattggaga aggttggtga tgttgctgag cagtgtgaaga 240
 ggccatttga gcatggcttc cagtgcggaa gctacaaggt tccagcaaac tgatgatatc 300
 gcaagaggga agcgcttgac gtaagcttta gatttcaatt gctgcagccg atcaaccttt 360
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<210> 54111
 <211> 300
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-035-Q1-K1-E1
 <400> 54111

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 ttctctttcc ctactttttt caatttcttc tctattaaat ccctttccct cccctactta 240
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<210> 54112
 <211> 188
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-035-Q1-K1-E6
 <400> 54112

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 catctgactt acccttatca tacccttaac ttaataacct actctctcca aatcttatat 180
 tataatta 188

<210> 54113
 <211> 253

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-035-Q1-K1-F12

 <400> 54113

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 attttctact ccataaacac aaatagggcg cgtgttattc aacctgtag actccaaaaa 120
 cactgatctc gactgatgaa cctactacat tcacctgcca aaccgcatgc tcctcattgt 180
 acctactcat ccatagcctc ctttagatac aaccacaca catgctgctt attgcactac 240
 atgacatcaa ggc 253

<210> 54114
 <211> 389
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-035-Q1-K1-F2

 <400> 54114

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 tatatttact tatgcgcgat cagatggtga agctgctggc gatgcaagct cgacgcagca 120
 agtggtaaaa gactttcatg tccatacata tactgctggc gaaacataag aagcatgtga 180
 ggtagctcga aacagcatag aacttcattg aactgctctt tcctcttatg ctgagcatga 240
 tgctctaaag gatgactcga cgaccactct catgcaacac tgctaccgat ctcagcacac 300
 tctgcatatg attattgata gcgtcggaga caatgaagct gcgctatctg aggtctagag 360
 cgtgaacgac gagatcgata gcgtattat 389

<210> 54115
 <211> 489
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-035-Q1-K1-F9

 <400> 54115

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 aagcttttat ctttcactag aatatcatca acagtcgaga cagctatgga ggatgcgctt 120

cttcgtatatt tgaccccaag gcgctctatt gacatactga gggacgtgca cgctgccaag 180
gagcgtggga ggccatatgt tattgttttt gttgggggtga atggagttgg caaatccacc 240
aatcttgcaa aggttgctta ttggcttctt cagcataacc tcagtgttac acttgacagca 300
tgtgacacct tcagatctgg tgctgttgag cagctgagaa ctcatgcaag gaggcttcag 360
atacctatat ttgagaaggg ttatgagaaa gatccggcag ttgtagcgag ggaggctatt 420
caggaagcaa cccggaacaa atcagatgtt gttctgggtg acactgctgg acgtatgcaa 480
gacaacgag 489

<210> 54116
<211> 156
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-035-Q1-K1-G12
<400> 54116

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ctaaaccagc ttcataattcc cgcaagctta ttattaaatc accgaccacc acaacaatca 120
caacccttct tctctacct aactctccac cttcat 156

<210> 54117
<211> 338
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-035-Q1-K1-G8
<400> 54117

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ggcaaagatc caggacaagg agggcatccc acctgaccag caacgtctca tctttgccgg 180
caagcagttg gaggatggga ggacccttgc tgcataccac ccctaagacg caggatcaag 240
tccatgttgt ataactacct agaggtgcga ttgcgagtgt aacggtggaa gtgcaagaag 300
ctaacagtga agccgtggtc agctgccaca aggtgctc 338

<210> 54118
 <211> 441
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-035-Q1-K1-H10

 <400> 54118

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 gcaagtgtgt gttgtccgcc agcctgaccg cctctccgcc tccggtgctc acccagtcgg 180
 ccagtcgccc gcctcgtcgg ccgcccgcctc gccgcgcgca gcgcgtgcc aggaaatagg 240
 ccgccaggcg cccgcagtgc ctgtccggcg tggtgacgtc cgcctcaagc tgtcagactg 300
 ccgctcgacg ctcgttacgc acgcctcag cccgctagt taaggatcag aaagtctgcc 360
 acaggcaaca agtgaggaa ctagcctagc tacgaggatt caaggaaat gggagaaaat 420
 ggggtacaact aggacaacag c 441

<210> 54119
 <211> 227
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-035-Q1-K1-H12

 <400> 54119

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 accactgcta ctctccctac ctaggctagt cacctacctc atgcgctcac tgctcttcat 120
 gcaatttcc tctactacct tacctatatt tacaagcttc tccttcacaa cttatgctac 180
 aacagcttca atccaattac atttttccga aactatcttg accccac 227

<210> 54120
 <211> 240
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-035-Q1-K1-H4

 <400> 54120

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 caatgtcaag gctaagatcc aggacaaggc gggcattcca cctgaccagc aacgtctcat 180
 ctttgccggc aagcagttgg aggatgggag gacccttgct gcataccacc cctaagacgc 240

<210> 54121

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-H7

<400> 54121

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 tactgtaagc agagggcaaa cattcgacgc agacgctgag aggacactga tacgctgggt 180
 gtactgaaag tgaaaacat cagatttgag ccgaggctgg catagtggaa agaagaggca 240
 atcagagaac tgacgactga agttgacaac aaaattcgtc tgcactttga ccactttttc 300
 tggcctaacg tggatttcct cggcgtcgaa acctctacca cgtatggttg cagctatttc 360
 ctgaacctgg acaaggcaac aggccacct gtgctagtta catgcctgct ggccgacttg 420
 ctctgacat tgagaagatg tcagatg 447

<210> 54122

<211> 328

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-A3

<400> 54122

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 ttaccattag aaatataata acgtatgtga ggccggtgca tatatatatg catcatccat 120
 ctacctgcgc ggtgcaaaat tctgaataaa acctgcataa aacctgattg agcacaaaca 180
 acagcagctg cagctgcaag cccacgagc aagaggatcg ccctggtgac ggtagggaac 240
 aacggcatcg ggctcgagac gtgccagctg ctgtcttcca gcggcgacat ggctgactg 300
 accgcgagga accaggcgag gggattgg 328

<210> 54123
 <211> 377
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-036-Q1-K1-B11

 <400> 54123

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 aattaaaaaa aaaaaaaaaa aaaaaaaaaa gaaagaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaaaaaa aaaaaaaaaa aaataataaa aaacaaaaaa aaatttaaaa aatataaaat 240
 ataaaaaatt aaataatatt taaatatatt aaatatataa aaaaatttaa taattaattt 300
 atttgaaata aattctagaa aaaatattaa acaaatatca aatatatgta tcaatataaa 360
 aaaacaatat aaaaata 377

<210> 54124
 <211> 444
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-036-Q1-K1-B12

 <400> 54124

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 aacccccacg actccaacaa ggtctactct gcccatctca aacactacgt catgatcgat 180
 cttaccaaatt ctgttcacat tgacaacact gccatgttca acgaactcac tccttatgac 240
 tatgtctgct actacatcat ggctgcatct gtatcaagga agatctaatt gacacatgcc 300
 attcgtgttg atcgcttcca gaataactaat ggtgcccata acatgaattg ctcacgctca 360
 cctcacttct gcaagaacat ttgtccatc tcacgcaaca tccttcatca tctgcaggac 420
 atgaacatca ttgatgtcga tccc 444

<210> 54125
 <211> 427

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-036-Q1-K1-B7

 <400> 54125

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 agctctgttc gtctcccttc gtataaattg ccgaccaccg ccgcaccttg aagaccgccg 180
 cgctgttcgt cgtggtggcc cgtctcatgc aacgactagt acgccgatcg cggcctcaaa 240
 gacctccgc caccgctatg acttgaagcc ctctccatg ccaatcaaga ttcattggtga 300
 acgacatcca taacagagac gggattgtcc tcggaacctc aagaggaggg catgacacta 360
 ctaaaatcat tgattgtctt caggaccgtg atactaacca gatttatatt attcaagatt 420
 cgatgtg 427

<210> 54126
 <211> 412
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-036-Q1-K1-C1

 <400> 54126

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 caaccctttt gcaccaacgg ctgcggcggc ggctcagaga gcggaggctg accctgagta 180
 cgaggatctc atggcatcag ttggcatgaa gtagcgaaga ctgctggctg gcccctgac 240
 tgtctgtggc aaaaacacag aggtctcttc ctattgcttg ccaagatgtg cgggttacta 300
 atctctcca atgtatctct agatgggtact gaattccgtt ccatcataga caggtgccat 360
 gcttgaacga aaaacataaa taaaaaataa actagtggac cttgtttgag ac 412

<210> 54127
 <211> 325
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-036-Q1-K1-C10

<400> 54127

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tataaggatt caaatgtgat gtctacttta ggagagttct attatgacct tgacaagatc 120
aatgctcata ccttccaact agagagaacc gctcaatcac gtgttgtcaa catgggttcag 180
cttgatatct cctcaaacca tgggaacttg gaacttacat gcatctatcg cttcaggggtg 240
catggcataa agcccgtcta ctccatcact ggacgatgaa gccctgagct gatacatgcg 300
tgccatatcg cgacaacatt cttgc 325

<210> 54128

<211> 197

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-C5

<400> 54128

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tgagagacct caatgttacc accgtatctt tgtctttgtt ggatggagag atttaagcac 120
cttaccacac ctttgttctt tgttggtatgg atagttttaa gcatcacctg tttgaagtgtg 180
aaaaccctaa cttaaaa 197

<210> 54129

<211> 96

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-C6

<400> 54129

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aataaaaaaaaa aaaaaaaaaa atgaaaatat cataaa 96

<210> 54130

<211> 222

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-C7

<400> 54130

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agaaataata taacctttga agggcagggc gcttcacggt tactattaac tataactact 120
ctaactaagt caaatccatt catctataaa tagcgacctg ctcaaatacat atctacactc 180
cccacatcat ttttacctgt acctctctaa ctaaaattat tc 222

<210> 54131

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-E1

<400> 54131

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aagctgatgg cgttcgtgag ccatatgggc acctctacc actgcgggca ctacgtagct 180
catgtcctca aagacgggag gtggacaatc ttttaacgaca gcaaggctgc agtatctgtt 240
gacctgccca aggaaatggg ctacctctat ttctttcaga ggattagcaa ctaggcacgt 300
cacacacaat ggaaagaatg gtgggctggt aggatactgt cttgctgatt ttaaagcgaa 360
cgtttactca aaaa 374

<210> 54132

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-E12

<400> 54132

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gatcaagatc gggatcaatg gggttgagc gatcggaagg ctggtggcca gggtgccct 180
gcagagcgac gacgtcgagc tcgtcgccgt gaacgacccc ttcacagca ccgattacat 240
gacctacatg ttcaagtatg aactgtgca cggacagtgg aagcaccatg aggtcaaggt 300

gaaagactcc aagacccttc tctttggtga gaaggaagtt gctgtgtttg gctgcaggaa 360
ccctgaagag atcccatggg gttcggttgg cgctgaatat ggtgatgagt ctactg 416

<210> 54133
<211> 289
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-E7

<400> 54133

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ttaaactata ccctgtatac atcccacacc atgaaacgtc tcatcattaa cttccacgcc 120
atgatacctc acatccatat acctaatatc ctcacgatca tgatctctta gatgatctaa 180
ctacaacttc actcccacgt catctacccg atcatgcttt aacatcattc actattcatt 240
cacaacctaa tggacatgac catttcaacc attttcttac agcaaccct 289

<210> 54134
<211> 467
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-F10

<400> 54134

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cacaagacta tctgtttgca ttgggtgctgc tagagggcta gtatatctgc acaattttgc 180
agggcgttgt atcatacaca gagatattaa atcgagcaac atacttctgg atcacagcat 240
gtgtggcaag gtagccgact ttgggttttc caagtacgca ccacaggaag gtgacagcaa 300
tccatcaatg gaagtgaggg gaactgctgg atatttggac cctgaatact attccactca 360
ggtgttatca accagaagcg atgtcttcag tttcggagta gtcctgttag aaattgtgac 420
aggaagagaa cctcttgatg tcaaaaggcc tcgtcatgaa tggagct 467

<210> 54135
<211> 366

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-F5

<400> 54135

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catgatgtcg caaatgatga tgccacaatg tcaactgagac gccgtctcgc agattatgct 180
gcaacagcag ttaccattca tgttcaaccc aatggccatg acgattccac ccatgttctt 240
acagcaaccc tttgttggtg ctgcattcta gatagaaata tttgtgttgt accaaataat 300
gagttgacat gccatcgctg gtgactcatt attattaaca ataaaacaag tttcctttta 360
tcaaaa 366
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<210> 54136
 <211> 414
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-F9

<400> 54136

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aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaagaa aacttaaaaa 240
aaacataaaa acgataaaaa taagtgactt aaaataaaat acagaaacac aaaattcaaa 300
aaaaattaaa actagtaaaa caccagtaga cacctaatta aatggccaaa ccgaatattg 360
atcataacaa atacttacgt caaaacaaag agttcttcac aattggcctt ttcc 414
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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-G7

<400> 54137

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gataggcaac tagctgcga atttcaggaa atccctctgg atcttacgat gatccgggca 180
cataaggctg gatttgagat cctgaaatct acgattgctg agaaactacc caatgatctg 240
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acccatgatg tcgtgtaagg acgcgttgca cctgattaca caatctcaca agcgggtctc 360
gaatctgtag cttcaatg 378

<210> 54138
<211> 142
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-H1

<400> 54138

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aggggatggt gactgatcca aacttacata ctctagcatt cgacaataat aaatctgata 120
tagagttact taactacaat tt 142

<210> 54139
<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-H3

<400> 54139

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caaaaactga tagagcaagt gcacaagcat ctgcaattaa aaatgaaggt tcacgatcca 180
gatgcaataa agctaccatt ccccatcga gaaacaaagg cagcaagaag acgcaacagc 240
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ttattggtta agtggaagtg tctcttctgg tgaacagtct cttcttttct cttttccaaa 360
tgaaattggt tattgtcagg attgttctaa tttggactgt cccgatccga ggttttggtt 420

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449

<210> 54140

<211> 143

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-H7

<400> 54140

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ttttcgacga ccaaatacgc cgggcgggc actttttcca catctacaac aacatttacc 120

tccacttcat gaaccacaac aca 143

<210> 54141

<211> 195

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-A10

<400> 54141

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tattaaaaaa aactaaaact aaacaaattg aggactttac aatataggca ctactatctc 120

aacttactac cttatctaca ctaacatcat actttatatc acttttctac tttttaacac 180

cttcaacata ctaaa 195

<210> 54142

<211> 304

<212> DNA

<213> Zea mays

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<400> 54142

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aacttcgcac gtacggtatt gccgatcctg atgtatgcag gaggcaggct tatatagcag 180

aggcgtcaat agtctgaaat aacatccgtt gcactagtat ccgaataaag tgacagtgaa 240

ttgatttttt attttcatta aatttctgtg taaaaaaaaat atactccaag cccgatgatg 300
taac 304

<210> 54143
<211> 162
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-A7

<400> 54143

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tctcctatat tgccacttaa attcaattca atgtcctgac cg 162

<210> 54144
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-B5

<400> 54144

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agatagaaca cgttctcgcc tttgtttta aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
aaaacaaaaa aaaaaaaaaa taataaaaaa aaaaaaaaaa agataaaaaa aaaaaagggy 300
ggcccctttt aagggggcca ggtttacttc cccgtatttc caacttaaaa cttttttttt 360
ggggcccaa aatttaattt caggggccg gttttaaaaa cttttatatt ggaaaaacct 420

<210> 54145
<211> 321
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-B7

<400> 54145

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 gtgaactttt tatatggcac ttgtaatacg tcacaaactc ctatcatggc gcccttcact 120
 ctatatgata cacgggtctta ggcgatctct tactactcct tttaatccat gtgcacaata 180
 cacctgctca ccagctaata aacatggcgt acatgcctgt tctgccttgc acacgactac 240
 acaccttcat gatcttacct gcgctctgat aacaggttgc tcgcctaaat tacgatatgc 300
 tcgatgtgcc tttcttcaca t 321

<210> 54146

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-D12

<400> 54146

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 cctactgggg ctgcatggtt cccggacctt gagccctgcc ataaccgggg gagcaccctg 120
 cgtcgtcgtc atcgcccacc accaccagtg ctcttctcatt cgtctcgtca tccggggcag 180
 ctgacgactc atcatccac gctctgggca agcgcccccg ggaccgggag ggtgacgatg 240
 ggagaaactg ctgcaacgcc aaagtgtggg ctccaagag catccggata gactacgtgg 300
 acgatgttgc caggagctca atctgggtccc tcgtcgggat caaaggcgac cagacgaagc 360
 agcaggacgc atcatagac cactccggtg ggcacagcaa gc 402

<210> 54147

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-E9

<400> 54147

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 ggctgactta cacatgcggg cgacttcata actattctat actaccacct aacttcaatt 120
 cactgcccac ctttttacia catcatcact ctaaaaaccc tgtcattacc caactaaatc 180
 cccttacacc acatccccct ttatccaatt aacattataa cgaatatccc tccaccaatc 240

tccctatcaa cacttcccca aactaaataa cgaattagac tctcccttta accgatcatt 300
aacctcaaca tgtctttag tag ttacacgcat acttaccctt acacttgcaa tcaccctaac 360

<210> 54148
<211> 360
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-G4

<400> 54148

tccggaattc ccgggtcgac cgacgcgtcc gccacgcgt gcgagagatc ctgggtgctga 60
acacatgttc aaggaaatca gcaatgctta gtgatggttt gtctgatgat gagaagcgat 120
caatctatga taaatatgga gaagcacgtc tgaaagggtc tggcatgggc acaggagatt 180
actcaaacc gtttgatcta ttcgagtcct tgtttgaagg attcgggtgg atgggtggaa 240
tgggtggcgg tcgtgctgcc cgtaacagac caatgcaagg tgatgatgag agctacaatc 300
ttgtactcaa tttcaaggat gcagtgtttg atgtcgagaa agagattgag ataaccagat 360

<210> 54149
<211> 188
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-H1

<400> 54149

gtttatgtga tgtggatcta tcattgtgca atactaatta aatttgtata aaaaaaaaaa 60
gaaaagaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa caaaaaataa aaaaaaaac 120
aacaaaaaaa acacaaacat acaacatcat aactcttata tcatgacacc taaattcaat 180
taactaga 188

<210> 54150
<211> 162
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-H4

<400> 54150

tcccgggaatt cccgggtcga ccgacgcgtc cgaactttat gagcaaaaaa aaaaactgcg 60
 ttttattcac gtcaatcatc gcctccttcg aggacgtcat atatacatgg gcagtgggca 120
 ccgatgatat acaccatcaa actgaataac ctccccggga aa 162

<210> 54151
 <211> 357
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-037-Q1-K1-H7
 <400> 54151

taccggtctc gtgaattccc gggntcgact ccacgccgtc ccggggccat gcccaaccg 60
 accccagcag cgcctcattc ttcgcgcggc aaggccagct ggtaggatgg gccgcgacc 120
 atggtcggat taccaagcat ccagaaggga gaaagcactc tccagcctgg tgctccgcct 180
 caggggtngg catgcnagat ttttgtgaag acatntgact ggcaagtacc attcaccttg 240
 gaggtgngag aagctctgac atnccattga caatgtgaag ggccaagaat ccaggacaat 300
 ggagggcatg tccccagac cagcagcgtc tggaatcttt gcggggccaag ccagctg 357

<210> 54152
 <211> 371
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-037-Q1-K1-H9
 <400> 54152

aattcccctg tcgaccact cgctcctcca cgcgtccgca ccaccatcta aaacgtgttt 60
 tctaccatc ccattatctt ccccgtgct acagtcacca cattctgac cgggctanac 120
 tcctatatcc ttcattctta ccatctccat tccttcgatt ccatccatcc ctaatatctc 180
 aacaccttcc actctcttca tacatctctc tctttctcta ttacgactca ttatccatct 240
 cttctttact tttactcttc ctctctttct tctcttccaa cgtactaact caactcacct 300
 cttccttcaa catacctttt ctatcccata acatctttca atacatctcc ttatctacaa 360
 ttattaactt a 371

<210> 54153
 <211> 409
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-038-Q1-K1-C7

<400> 54153

 taccggttcc ggaattcccg ggntctaccc acgcgtnccg gaggtaccgc aaggagggttg 60
 tagagagagt actttaatgt ggacataaca caacatacac tttctgagcc agatgaccc 120
 gcgacaagga agcatcggat tgaaaacata ttcaggctct gtggcaacca tcgtgaaata 180
 gctaagaaac caaagggtcca gtcaccagca aaggaaatgt tctgcagcga gaacaagtct 240
 ccagcaaagc aagtgttttg ggatcagaac aaatcgatcat caaaccaaat ttttggagat 300
 gaaaacaagg agccgtcggc atgggggtgct atagagaccc ccatgtgcga tgtagagt 360
 actgacagcc cagtgtcttc tcagctttct ccaatcgat gccaaagttg 409

<210> 54154
 <211> 207
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-038-Q1-K1-E5

<400> 54154

 cacccttccg aaaaaacatt ccgaaaaaaaa tacatTTTTT tcattcaaaa acctagaaac 60
 acaccacaag ggaggTTTTT tcaaagaggg gggggcgcta aaaaaaaca aaaaataata 120
 cggggggcgc cgctctaaag gatccaagct tacttccgcg tgcatgcaac gttatagctc 180
 ttttattggg ccacctaaat tcaatta 207

<210> 54155
 <211> 367
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-038-Q1-K1-F2

 <400> 54155

aagcgaatca cattatcaac aacctatcaa caatggctac caagatatta tccctccttg 60
cgcttcttg cgtttttgag agcgcaacaa atgcgttcat tattccacaa tgctcacttg 120
ctccaagttc cattattaca cagttcctcc caccagttac ttcaatgggc ttcgaacacc 180
cagctgtgca agcctatagg ctacaacaag caattgctgc gagcgtctta caacaaccaa 240
tttcccagtt gcaacaacaa tccttggcac atctaacaat acataccatc gcatcgcaac 300
agcaacaaca attcctacca gcaactgagcc acctagccat ggtgaaccct gccgcctact 360
tgcaaca 367

<210> 54156

<211> 278

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-F5

<400> 54156

ggcaaaaaaa aatgcggcga gccgttttaa aaagaacca gtttacttgc gcgttcttg 60
acaaatatta tctttcctaa aacgccccct aaactcaatt cactccccctt tgtttaacaa 120
cgcttccacg gaaaaaaccc tgtcttcacc aaatttaatc ctttttcccc acatcacctt 180
ttccccatct gtattaataa taaaaacccc cccaatatc gcccttccca acaattgccc 240
acctttaata ccaaatggga cccccccacc atgactac 278

<210> 54157

<211> 106

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-G10

<400> 54157

ggaattcccg gggggacaca cgcgtgggtg ttcacgatcc aagcttacg ctttttgct 60
gcgacgcgct aaatgttcta tgggtggcacc taaaggtagt tcggtt 106

<210> 54158

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-G6

<400> 54158

caccggttcg gaatttccgg gtcgacgcc cgcgtccgcc cacgcgtaac ggagacgcga 60
tgggtgctgt cttccgctgg cgggtgctat tagtcgctgt gtacctacc gtgacacata 120
tccctttttt tggagcgctg gactactcag gcaaactctg catcgcgacc tttggcagct 180
gacttagtcc cgattgttgg gctgtaggaa acaaacacaga accggttcga ggtccctaga 240
tctctgcgta gaggcggcga ggcacccgaa tccggcaaaa aagggttcgc ggtttgcctt 300
ggttgggagg agcgcaggag cccggcgctca aaacccaatc ttggcgcccg ggctgccgtg 360
cgccatcgtc ttctcccccc tgtggtgttt agggagagga gaaggccggt gga 413

<210> 54159

<211> 303

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-A11

<400> 54159

accggtcctg aattcccgtt tccgactcag acctaccgt cgcgtgacct attaaggttc 60
catgtcggat tccttcacac tactatggtg cttcaccgag cgatgggatt gatcaagtgg 120
ctacaggtga atatgcacag cctgctctag agatacatca tctgctgcta ttcaatgtct 180
gaaatgctct tgtctgccct aggcacgctc atctagacaa ggaaacagtc taccgtaata 240
tcatacaccg taatacatat gttatgaagt tacagcgtag tgatactgaa gatccattaa 300
atg 303

<210> 54160

<211> 78

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-A6

<400> 54160

aaaaaaaaa aaaaaaaaaa aaaaaataa aaaaaaaaaa aaaaaaaaaa aaaaaaaag 60
gaaaaaaaaa aaaaaaaa 78

<210> 54161
 <211> 333
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-039-Q1-K1-A9

 <400> 54161

 tcttgaattc caatttccgg gtcgaccac gcgtacgaca cactcgagaa ctccatttcg 60
 atctcatttg aaatcaaccc atcctogttt cctcggacta gcagcctgtc accctcatgg 120
 ccaagatcaa gatcgggatc aatggggttg gcaggatcgg aaggctggtg gccagggtgg 180
 tcttgcatac cgacgacatc cagctcttcg acatgaacga ccccttcac atcaccgatt 240
 acatgatcta catgttcaag tatgacactg tgcacggaca gtgtgagcac catgaaggtc 300
 aggtgaaaga ctccaagacc cttctctttg gtg 333

<210> 54162
 <211> 70
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-039-Q1-K1-B5

 <400> 54162

 aaaaaaaaaa aaaaataaaa aaataattat aaaaaaaaaa aaaaaaaaaa aaataggagg 60
 gataatataa 70

<210> 54163
 <211> 96
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-039-Q1-K1-C1

 <400> 54163

 cgggtctcga attcccgggt cgagccacgc gtccgctcac gctatctctc tcacgctcac 60
 tttcctttca cggtgactgc caattcagtg gggggg 96

<210> 54164
 <211> 322
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-039-Q1-K1-D10

<400> 54164

acctgtcctg aattccctgg tcgaccact cgtcctacca cacctacgct aaccatcacg 60

cactcccttc taccattcaa cccttacact cagggcggac caaccttagg tanccacatt 120

tcacaaccct aacttcatat actacctaata tctcactttc aataacttca tcaatatcac 180

caccaaattc acctacatca cctacaaca acatctcaac tctctccaaa cacaccttac 240

atatcacact tgtccataat atcaatcttc tatacaaata accaacactt cacatcattc 300

ctcatcaaag aacaccactt ac 322

<210> 54165

<211> 296

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-F9

<400> 54165

accggacctg aattcccggg tcgaccacg cgttcgttgt tcaaagataa cgcattgtgac 60

ctaagatgag ctcaacgaga acagaaatct ggggtggaac atacagggtta aagctcgctg 120

gattatgatt tacagctcga atactaaccg ggtacgcgtg gcctatcgat cctttagacc 180

tcaagagttc gaagcttgag gagtacagaa cagataccac actggataac tgtgcttggtg 240

tgcagccaat ctgatcatag tcgacttaag cataactgat cctccagatg attagc 296

<210> 54166

<211> 101

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-A10

<400> 54166

gcctgccgta ccgtccggat tcccgggtcg accacgcgtc gccaccgtcc gaacgaggcc 60

ttatttcaag cggccatatg ccaatggaga gctgattatg a 101

<210> 54167
 <211> 147
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-040-Q1-K1-A9

 <400> 54167

 aaaaaaaaaa aaaaaaaaaa aaaaaaatta aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
 aagggctgac aatttaaagg gtaccaagct aaaatacaca tgcattgagac gcaatcagct 120
 cttgtataga gcaacctaaa tgcaatc 147

<210> 54168
 <211> 224
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-040-Q1-K1-D11

 <400> 54168

 aaaaaaaaaa aaaaaaaaaa aaaataaata aaaaaaaaaa aaaaaaaaaa aaaaaagaag 60
 aaagataaaa aaaaaaaaaa aaaaaaaaaa aaaaataaaa aaaaaaaaaa aaaaaaaaaa 120
 aggggggggcc tatttaaagg atccaagctt aggttcactg gcatgcatga taaaactgct 180
 ttaatagggt cacctaaata aaattaactg gctgaggtat aaaa 224

<210> 54169
 <211> 197
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-040-Q1-K1-D3

 <400> 54169

 attgattgag atttatctca aaaaaataaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
 aaaaaaaaaa aaaaaaaaaa aaaaaaaagg aaaaaaaaaa aaaaaaaaaa ggggcggccg 120
 ttctagagga tccaggctta cgtacgcttg cttgcgacgt aatagctctt ctatagggtc 180
 ccctaaattc aattcat 197

<210> 54170
 <211> 249

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-040-Q1-K1-E11

 <400> 54170

 aatgaacata catgacacaa gcgtgtcttg actgcacaaa ctacatccta ggagctaagc 60
 tacttcaagt caaaagtcta tgacattatg cgtacatgca tgtcactcgc atggactagt 120
 ataaccgaat catggctgac ctttgtctac acaacaacaa ggactacggc ggccgggtcta 180
 caggatccat gcttacctac gcgtacatgc gacggcatac ctcttatata gcgtcaacta 240
 aattcaata 249

<210> 54171
 <211> 108
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-040-Q1-K1-E2

 <400> 54171

 atccatatgg attgaaaata accgaacaag cccttgagg gtagatcggg ggagtcgtgc 60
 agcagtagca ctacgtcctg tgaaaagagt atcatctcgg ttttaaaa 108

<210> 54172
 <211> 155
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-040-Q1-K1-E9

 <400> 54172

 aatgaatcta tattacagca taatgtatag actagagaaa gtacatccta ggagtttacc 60
 tcctttcatt taaaagttgc tgtctttatc tgtacatgca tgtagctcgg ctttttttgt 120
 ataagtgagt catggttgat ctttgtctac aaaaa 155

<210> 54173
 <211> 79
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-040-Q1-K1-F11

<400> 54173

ggacgaccgc actcgtacga aaaaaacaaa aaaaaaaaaa aaatataaaa aaaaaaaaaa 60
aaaaaaaaaa aaaaaggag 79

<210> 54174

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-G10

<400> 54174

ccggtccgga attgccgggt cgaccacgc gtgcgtcct ggtgttttgg atgcaattgc 60
tccacagttc atgacaagaa aaatttgggc tgttgcgta ccccgtaag tgcgaactcc 120
aaccaggcct cttaagttag agatagctat atatcctgaa ttacaggctt ctaaaccacg 180
ttctgtactt aaactatgga aatgtcaaat tgagcaacca aagcttaatc aggctgaccc 240
ttccattatg atttttgaca aaggaacaaa gactagatac aagatcttac cggcctatga 300
aggtgacaaa cagcagcttc aatggtttta taatgcatgt tggggcatgg ccaggtttt 360
gaacacggtt ccagtagcac cagcaaatt 389

<210> 54175

<211> 365

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-H10

<400> 54175

ggtcccggat tccccgggt cgaccacgc gttcgtcaag ccgagaacgg tgtcaaggct 60
gcatcagctg gcgcagacgg agccagccga cttgagctcc aggaaagtag cacgggcaac 120
aactgccacg acctatcctt caaacgata ctcgagacga cgactacgac catcgcagcg 180
gacgcgtgcg atgaaggaa cgaccaagac gagtgcggtc atacgcagct ggttggtgac 240
gcgcaccgtc gctacttcta ctcgcagcac aagggcgagc cgcgaccgac agcgacgatg 300
acggtgcatg ccgccgctgc atgaaatgat gagcggcaga cgagtgatta aatgatggac 360
catcc 365

<210> 54176
 <211> 232
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-040-Q1-K1-H4

 <400> 54176

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 aagggcagac gttctagagg atccaaagct taagggcccg tgcctgcgaa ggttttagctc 120
 ttcggtaggg gaacatagaa tgaattaact ggccgatagt gtacatcgtg ttgaatggga 180
 aaaccctcgc gtaaaccagc ttaactggca acaccatgtg gccacttagc at 232

<210> 54177
 <211> 383
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-041-Q1-K1-A11

 <400> 54177

 gcattctcga gcatagcttc tctgcctctc tctcccctcc tctcctctcg tccactcctt 60
 tgtccaaagc ttcgagatgg ctccagcagca gaaggtggtg gtcagggttc caaccatgac 120
 agatgacaag atcaagcaga aggccatcga agctgttgctg gacatttacg gtattgactc 180
 catagcagcg gatctgaagg agaacaagat gaccatcata ggcgagatgg atgcagtagc 240
 gattgccaaag aagttaaaga agattggaaa gattgacatt gtgtctgttg gacctgcaaa 300
 agaagaaaag aaggaagaaa agaaagagga gaaaaaggaa gaaaagaaag aagagaagaa 360
 agaggagaag aaagaagaga aaa 383

<210> 54178
 <211> 63
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-041-Q1-K1-A6

 <400> 54178

 aaaaaaaaaa aaaaaaaaaa aaaaaattaa aaaaaaaaaa aaaaaaaaaa aaaaaagggg 60

aat

63

<210> 54179
<211> 347
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-C1

<400> 54179

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tattcttagg aatatggagt gattgtcact gcgaaactta ccatggaata gcgaccctg 120
cattcaaaaa tctctatgg cccgatgggtg atctgtaggc actcaatggc gcgagtacaa 180
ttccacacct tagcagctca cagctatggg tctgttaata gggtagctta acatactttt 240
ctgcgtccct tccatcggt tactcttacc cagcgacgac actcctaaag ggatcagact 300
tactacatct cgattgcctg aacgctcaga cgcccgtcac aagtcca 347

<210> 54180
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-C3

<400> 54180

cggaattcct ggcgcgacga cacgcgtccg cccacgcgtc cgggctcacc ccatcatcag 60
cacgcgaaaa tctcccgatc ccagctagtc ttcgccgaga agatgttcgc tcaccgtaag 120
ggcgtgaagg gcctgggcaa ggcgggaccg aaccgccacc ggaaggcgct ccgctacaac 180
atcgagcgga tcacgaagcc ggcgatccag ctgctggcgc gcaggggctg cgtcaaccgc 240
atctccgggc tcatctacga cgagaccgcg ggcgtactca agatcttcct ggagaacctg 300
atccgcgacg ccggcaccta caccgagcac gcgcgccgca agaccgtcac agacatggac 360
gtcgactacg cgctcaagcg tccaggccgc accctcta 398

<210> 54181
<211> 64
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-D6

<400> 54181

tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttgtt 60

tttt 64

<210> 54182

<211> 447

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-041-Q1-K1-E1

<400> 54182

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gctattttatc atcggctctt gtgaagggtgc gtggcctatg ttgggtgtat aaagagtcta 120

acttaatata tccgttcttt gcagtcgcac acttcatgtg acgactggta tattatgcta 180

atatatacgt cttcctctca cacgccattt ctcccttttg acatattgaa gtaaaacctg 240

ctagccactt ggaggatcca cagattatat gatgcgctat aaaagtactc tccgtgttga 300

aatgttttagt ctccatcctc ggtgcataac acggttttgc tggacagtac tgtgcggaag 360

agtacaatag acataagcga tggatttcca agcagatggc ttttgggtat ttcatagtct 420

gacaaatttc attttcctgt taataaa 447

<210> 54183

<211> 288

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-F10

<400> 54183

aattgccggg tgcagcacg cgtccgagaa agactcccta aggtcgacct agaccactga 60

ggacctgcgc tctagacgtg gaggaccgca tgagggacca ttgcgtgacg gaggagatgg 120

cgccccgcga acgcgagtac tcaaggagcc acgttcggtc ccctgtattg tcaagctagg 180

tggatcggcg actaccaaca agggcgagct ggagagcatc aacgatgaga acctacggtc 240

ggcatgtgcg cagctgctgc atgccatgta cgaatctgac tgcgatgg 288

<210> 54184

<211> 260

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-F6

<400> 54184

cttcacttgg ataacctttc gctgagctca tttcaataag acgtttcggg gccatggaaa 60

tgctatgtcg cttggagtca atgtggatgc ctaatttcaa atttttattc ttcatacatt 120

tcaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaagggcag 180

ccaatctata tgatccaagc tttcgtactc attcatgcga catcatagct gtactatggg 240

gtcacctaaa ctaaataagag 260

<210> 54185

<211> 197

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-041-Q1-K1-G10

<400> 54185

gtggcgcgcg tctacctggg cggccagaac gtgaccctgg acctcgctag gttccggcag 60

acactggcga ggatgcactc gcacgcgatg cggcagaggc tccggcagga gagactgtga 120

tgggcgggccc gccatcggcg acaggtgtac gcacgcacgg cggctgacta tgctgntccg 180

gaccggtaga gggagcg 197

<210> 54186

<211> 71

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-G8

<400> 54186

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aaaaaaaaa a 71

<210> 54187
<211> 197
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-H8

<400> 54187

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atacaggtga tagttcgtca aagtttgaag gccatgatta attggccccg catgaggatc 120
atcaatgaga ccctaatacct gatactattc ggatcaatag ctacaagata cgtgtaatta 180
aagtcattga tcatgga 197

<210> 54188
<211> 377
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-A1

<400> 54188

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gcccaagata atagtgcac cctgccagca ttccctgctg gtaaccaagc cacgtctgca 120
gaaaattagg ttagcggttc agagaatgct tgactaataa tccttgcccc tctagaggct 180
atatcagcca tgcactgtaa tactcagggg gaatgtatgg tgaactttat atcatgcaag 240
tttagacatt tgtattttga gctttgtttg aggataaaat ctgtgtattt ttagcgctat 300
gtaacacatg gactgccaat tgctgtgggt ggattttgat ctataaaaaa aataaaattt 360
agataaaaaa tataaaa 377

<210> 54189
<211> 523
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-A3

<400> 54189

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cagtttttca tgaatgacat gtgtccccgt gggggccttt tgagagtcgc tgagtttact 120
 ttagcggaaa ttgatcactt tgtggacca gaggacaaat cccatccaaa gtttggatgat 180
 gtttctgatac tacagttcta gatgtttccg agagaggatc aaatggcagg aatgtcagcc 240
 acaagactta aactcggaaa ttctatatct gagggaaactg tgaacaatga gacccttggc 300
 tacttcattg gaaggggtcta ccttttcttg acacaacttg agattgacaa ggatcgtctc 360
 cgtctccgta aacacctgcc aaatgaaatg gtcattatg ctgctgattg ttgggatgca 420
 gagattgaat gtcctatgg ttggattgag tgtgttgaa ttgctgataa gtctgtctat 480
 gacttacgtg cccactcga ttaaatccgg gaagaaactt gaa 523

<210> 54190
 <211> 609
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-042-Q1-K1-A8
 <400> 54190

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 aaggacgagg aagggtagcc agcgttcgag ctggtgaaca aggtcaccgg cgaagccatc 120
 aagcactcgc tgggacagag ccaccgggta cgccttgtgc cctacaaccc cgagtagctt 180
 gacgagtcgg tgctgtggac ggagagccgc gacgtcgggc acggcttccg ctgcgtgcgc 240
 atggtgaaca acatctacct caacatggac gccttccacg gcgacaagga ccacggcggc 300
 gtccacgacg gcaccacgt cgtcctctgg gagtgggcca agggcgacaa ccagcgtcgg 360
 aagatcctgc cctggtgaac gtgaacagag acgagctaga tgaatccaag gaaccttacc 420
 tagctgctgc cgccgcccgc taattcgtcc tctccgctc tagctgttat ctgtctgtgt 480
 ctccgctcc tcggttctg aatggacgaa taatatatag catgcatgta cggctagcga 540
 ccatgtctga atgacatctt cgttctgtgt gctgctgcta ctgctacctg tccgttttgt 600
 gttctaaaa 609

<210> 54191
 <211> 399
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-042-Q1-K1-A9

<400> 54191

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aggaaaacca cccagaaggg aagaaaacca tcgatcgatc catcgaaata aaaggctttt 120
cttaacatgg agcaacagaa ctgggccttc acctttcgta tcctaggtaa cataatctcg 180
ctgatgggtg tcctttcgcc gctgccgacg ttctaccgcg tgtaccgcaa gaagtcgacg 240
gaggggttcc agtcgacccc gtacgtgggtg acgctgttca gctgcatgct gtggatcttc 300
tacgcgctgc tcaagtccgg cgccgagctg ctggtgacca tcaacggncg tcggtgcgtg 360
atcgaagcgg cgtaccttgc cgcgtacctg gtgtacgcg 399

<210> 54192
<211> 275
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-B11

<400> 54192

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cccgccgggt ctacgaggcg cgcggaggga acgggagagc aaggcgagga gcgcggaagg 120
gctgatggaa ggggcggcgg ggcatggctc gccggccggc gtcgtgggag cagggcggcg 180
acgagtacga ctatctcttc aaggctcgtg tcacgcggca ctctggcgtg gggaagtcca 240
acctgctctc ccgcttcacc aagaacaccc tttgc 275

<210> 54193
<211> 202
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-B12

<400> 54193

cggtccggat tcccggtcga cctacgcgtc cggcgagaga gatccggagc agccgcagtc 60
ccaccgaccc cgccgcgggt cgccctccat ctgctcgccg ctgcctctcg tttctctttt 120

caataatcaa gatgagccgt gggggagtgc ccgtggtggg caaaggtctc tggggtatcc 180
ctttggaagc cgtgaacccc cc 202

<210> 54194
<211> 209
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-D7

<400> 54194

accacgcgtg cgcccacgcg tccgaaaata aaaaaaaaaa atggaaccgg aactgtgcga 60
caaagacata cacgaaaatc agaagacaat atactagaac agaaatgtac aagctgaaaa 120
aaggggaggc cgtttttagag gatccaagtt taggtacacg tgcttgcaac ttcttagctt 180
ttttataggg taacctaaat tcaattaag 209

<210> 54195
<211> 245
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-E6

<400> 54195

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaagga aaaaaaaaaa 60
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaacccacgc 120
tttcgccac gtttcgcgg acccctgggt ttaaactgca agcggccgtt ttaaaggatc 180
caagtttacg tacccttgca tgcaacttca tagcttttat atagggtaac ctaaattcaa 240
ttcat 245

<210> 54196
<211> 598
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-E7

<400> 54196

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tttctgcgaa atctaagctg ctgaggacga ccacttgcta gcccagcact gagctactgt 120
 aaatggcaac caacaacaag agacgtgggt cgtagccgtt agaagagggg gaaacttctg 180
 ttaaattccag cgtatagctc gtggagctgg gattcacgag gatttctgca tctcgctttc 240
 tcaggtgatg catgtaccat agctgtcttc gttagatcag acgaggcagc tcaaagcacc 300
 aggtgtttgt atatatatat tttttgtaac gctattgtag atagcctgtg tagctccagc 360
 cgtgcagctg tatgtagcag aaacctgaat gtccgaaaac gcccctgaat gtcaggtaga 420
 atcggtgctt gcatccagtt aacaagctgg cctatgtggt catgccacca tacagtagta 480
 cacatgcacc acaggatcag caagaggata gagccgtagt agaatcatgg aagcagatat 540
 gttgaacttt tacaggttgc atctgaattt gatgaggttt taagttatta tattaataa 598

<210> 54197
 <211> 198
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-042-Q1-K1-E9

<400> 54197

cttttttcaa gcaacgcgag ccacttattt cttttgtcta gctatgttag tgatatcttg 60
 tgagagacct caatgttacc accgtatctt tgtctttggt ggatggagag atttaagcac 120
 cttaccacac ctttgttctt tgttggatgg agagttttaa gcatcacctg tttgaagttg 180
 aaaaccctaa ctcaaan 198

<210> 54198
 <211> 172
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-F8

<400> 54198

aaaaaaaaaa aaaaaataaa aaaaaaata aaaaaccaaa aaaaaaaaaa aaaaaagggg 60
 gaacaagaac gcggacggcc gcacaagagg acccaagcaa acgaacgcga gcaggcaacg 120
 acataagcac accaaaaggg acacctacaa ccaagccaca ggccgacgag aa 172

<210> 54199
 <211> 199
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-042-Q1-K1-H1

 <400> 54199

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 cgtttttagct tgcaaagctc tcggcagctg ttgccatttc aagcgccggt gcgccctcaa 120
 ttacccatgc ctgtcgccca gcccacaact tctacgtcat cgtagtgggc gccggcatca 180
 tcgtcagctt cactgctca 199

<210> 54200
 <211> 236
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-042-Q1-K1-H10

 <400> 54200

 accgtccgca ttcccgggtc gactcacgcy tccggagaag ctagcaccgc cccaccagga 60
 tccaggtttg tgctgcgaga gggcctatcc attcggcatg attgatttcg tgctcctgat 120
 cagccgacag ggcaaggtga ggctcaccaa gtggtattct cttacaccc agaaagagag 180
 gaccaaggtc attcgcgaac tcagtggact cattcttaca cgagggccca aactct 236

<210> 54201
 <211> 102
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-042-Q1-K1-H2

 <400> 54201

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 aaaaaaagaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aa 102

<210> 54202
 <211> 187
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-H5

<400> 54202

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aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaggggagc cctttttaga 120
ggccccaatt ttacgtccgc gttcttgcaa cggtatacct tttttatagt gcccctaatt 180
ttaaatt 187

<210> 54203

<211> 89

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-H9

<400> 54203

ggtcgaccca cgcgtgagac cacacgtgag aaaaaaaaaa aaataaatta ttataatgat 60
ttaaaaatat aaataaataa taaagaaag 89

<210> 54204

<211> 344

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-042-Q1-K2-A11

<400> 54204

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ccgtcgtgct cgtcgcgag ccgaccgng tcaggggtgct cggcaacgtc tggctcgcct 120
tctccatggc cgtcttcgtc gcccctga gcgtcatctt cgttgtgatc aggacgaaga 180
gtgccgagtt catgcccttc accctctcct tcttccttac cctcagcgcc gtcgcctggt 240
tcttgtacgg gctcttcacc aaggaccct acgtcacgct cccgaacgtg ggcggttct 300
tcttcgggtg catccagatg gtgctctact gctgctaccg gaag 344

<210> 54205

<211> 271

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K2-G11

<400> 54205

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ttgagagtga tcaaatcctt agctgcttgc tttgtctctc ctattttctc cttgtgtatt 120
tttaagcggt tatccatgaa caaagtatcg gtactagggt actactaaac caaggatatt 180
aggctgtttg gctcaggttt aaaaaaagc tggaagccat acaacgcccg atgctagcca 240
ccgagctgaa cctcggctac caactggcgc c 271

<210> 54206

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K1-A3

<400> 54206

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aacaaaaata tgtctgactt aatagcatat aggggagaat tcacccctca tccacatgct 120
ggtgataatt ggtgtatcta tccgagctat gactatgctc attgcatggt ggattctctt 180
gaaaacatca cgcattcgct gtgcacactt gagtttgaca tacgccgccc ttcatactac 240
tggctacttg ttgccttggg tctttatcaa ccatatgtgt gggaatattc gaggctaaac 300
atatcaaata ctgtgatgct taaaagaaag ttgaatcgac ttgtgacaaa gaactgggta 360
gatgggtggg atgatccccg cttgttgaca ctggctggac 400

<210> 54207

<211> 492

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-043-Q1-K1-A4

<400> 54207

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ggaagcaaca gacagtgatc ataaacctgt caaatgtgtg ttcagtgtag atattgctca 120

tgtggacaaa caaacaatga ggcagaagta tggagaaata atgggttcaa ataaggaagt 180
gcttgactca cttcagggtt tggaggcttt gcctgaagta gatatcagca cgaatgacat 240
cattctgcaa gatcaaaacc cttttgttgt gaaactgcac aacagaagta caaaagagtt 300
ggcttgTTTT gagatcattg gtcagacacc aaagtcattt ggcacacctt tctcagggtt 360
cccttcttgg ctgaagggtt ctccggcagt cgggtataatt tctcccagac aatctgttga 420
agtgacgttg caacatggac aaatacgaag tcaagattat cttactggga cttcanggga 480
cagttctgga gc 492

<210> 54208

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K1-A7

<400> 54208

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ggcaccagc ctccacgcca cagatctctc tccctggccg cctctctctc ctctccgaac 120
tctaccccg agtctcgcc gcggccatgg cggaggacgc cccaacgcc gtcgccgagg 180
gcagccagcc cgcggcctcc gagggatccg ccgacgcgc cctgccggct gccgcgggcg 240
ccaaggccgc ggaggcgctg ctcccgctgc tcagtatctg gccgccgtcg cagcgcacgc 300
gcgacgccgt ggtgcgcgc ctcgtgcaga cgctgcgggc gccagcggt ctctccagc 360
gctacggtgc cgtcccgag cccgaggccg agcgcgccgt cgtggccgtc ga 412

<210> 54209

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K1-A9

<400> 54209

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gcacgcacac gcacgcacac acaccagcc ttttggtgc ggtggcgccg tcagagagag 120
aaaccgagct ctaactaact gaagtggcgg ccacatagct agctactctt ctgacctga 180

gcgcgcacgc gccatggctc aggaggacgt gcacctggac gacgcaggcc tcgcgctggg 240
 cctgtccctc ggcagcggca gcggcggcgc ctctggtgcg gcgcgccacg gtggtatcag 300
 ccgccggctg agcatggagg tgcggctgcc gtcgccgcac ccgctggagc cgtcgctgac 360
 gctgagc 367

<210> 54210
 <211> 404
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-043-Q1-K1-B2
 <400> 54210

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 cctgatcaac aacctgatcg gggtcctaaa cttegtcacc ttctgtctct ccgtcccgat 180
 cctgtgcgcg ggcattctggc tgggccaccg cgcctacggc acctagtgt agcgctacct 240
 ctgcggcggc gtcattctgc tgggtgcctt cctcctcgcc gtcttctctg cggtcctcgt 300
 cggcgccctg tgccgcgtca cctggctgct ctgggcctac ctcctcgcca tgttcgtcct 360
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<210> 54211
 <211> 421
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-043-Q1-K1-B8
 <400> 54211

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 ggcaagggtg gcctgttcga gttcctgtac gaacggatca agaataaggg gcatgctgtc 180
 ttcatggtct ccaaacgaac tggccatgaa ctgattcccc ctactgacca tcagaagcgt 240
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ctgatcatat ggtggaagag gtaacatccc gactacgcta tcactgtgaa gttcattgac 360
 cctacgtaca tgatcctatc cttccctgcg aacgccagcg acaacttgta ctgcactttt 420
 c 421

<210> 54212
 <211> 447
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-043-Q1-K1-C2
 <400> 54212

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 tgctaccgca accattttcc cacaatgctc acaagctcct atagcttctt ttcttcccc 180
 atacctctca ccagcgggtgt cttcagtatg tgaaaaccca attcttcaac cctacaggat 240
 ccaacaggca atcgcagcag gcattctacc tttatcacc ttgttctctc aacaaccgtc 300
 agccctatta cagcagttac ctttggtgca tttgttggca caaaacatca aggcacaaca 360
 actacaacaa cttgtgctag gaaaccttgc tgctactct cagcaacagc agtttcttcc 420
 attcaaccaa ctggtgcat tgaactc 447

<210> 54213
 <211> 530
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-043-Q1-K1-D1
 <400> 54213

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 gaatccggag gaggaggggtg cgaggagatc gcgagcagcc ggagccggag ccggagccgg 120
 aggctagta tatgaagacg ttcgatccgt ggccggtctt cttccgccgg gagtggaagc 180
 gcaattggcc cttcctcacg gggttcgcca tcaccggctt catcatcact aagatgacgg 240
 ccaacttcac cgaggaggac ctcaagaact ccaagtctgt ccaggagcac aagaagcgct 300
 gaccaaccag taatctatga catggacgcc ggatggcact ggcagagggg tgggtgtacg 360

tggtgtccga attgcctgtc tggacagcca gttatgttat gctgtttgaa tgaaaaatta 420
gcttcttttt cttcatctaa atgcgtgcag cctatgctcc atctgtaatg taataagagg 480
caactgactn gatccaaaag ctaccaacct ctgattatga atgatacntc 530

<210> 54214
<211> 410
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-043-Q1-K1-D2
<400> 54214

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acgaacaaaa ccacttctct gtcgagaggc gtcgcgctcc tctcttcgcc ctctgctggt 180
atTTTTctta acccggtttt ctctcgattg ctgogtaaag ttgaagatga ggaagctcaa 240
gttccatgag cagaagctcc tcaagaggca caatttcttg gagtacaaga gggagggcgg 300
ccaccgcgag gcgctcgtca cacagcgcta ccgcctcgtg gagagggacg actacaagaa 360
gtacaatggg atatgcttaa tgggtcaaaa gctcgttaac atcataaagc 410

<210> 54215
<211> 163
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-043-Q1-K1-D5
<400> 54215

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agctactaca cctctcctat cctatgttct cagttaactt tctgtcagac agtagttttg 120
ttttccttcg tgtaatcccc tagatatata tttttccatt tct 163

<210> 54216
<211> 229
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-043-Q1-K1-E1

<400> 54216

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tgtgcgttta ctctttattg gttgattgag gagtgggggc atgctaatacg actaacaat 120
ccttgacttc gtcgattcat taacctatga atgtatctgg gaactgatga ctgaaaaata 180
ttgcatgaaa atacatgggtg gtcaaacaga atttgaacca tgtttccat 229

<210> 54217

<211> 193

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-043-Q1-K1-E10

<400> 54217

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ttattatatac agtttaacaa aaaaaccctt tctcctttct ttatttttta aacacctcca 120
caatttaaaa aaccttttcc aaataaccgg cccccaatcc actttggtaa aacaaaaaaaa 180
taaattctttt ttt 193

<210> 54218

<211> 86

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K1-E2

<400> 54218

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aaaaaaaaaa aaggggggtt ttttaa 86

<210> 54219

<211> 278

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K1-E3

<400> 54219

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 tttacctcca cgattacacg ctgttttctg gtgatgagtg ggaggtgggg gctagcctcc 120
 aggtaaagat actttctgaa cagaatatgg ttgctgaagc tattgatagc tgtacagtta 180
 tggccgcttg ggatgggtgtg ccatctggag ttttgtgcta acatgcatgt gatttgacgc 240
 tgcaatgtgt actagcaaca gacttggttt tcttggtt 278

<210> 54220

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K1-E4

<400> 54220

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 gaaatggatg atgaagacga ttgaccatta tgatagctta atggatctat ttggttaagaa 120
 tagggagaaa cgtcaagacg ttgagaactc aaaaggtacc tcgaagaaaa aggcgcgaac 180
 agaaccgcca aaggagatac ttcaacgtac tccattaaat cggaaggggt cagctcttgc 240
 cgaaagtcca gataagacgg tggacaaatg tgagatccat gatgagataa aaacaaatgt 300
 ggaacttgat ttgtcagaat cgtgcagaac tgataatggc attgttgcca tacctgttcg 360
 tgccatttca tacggtaaag gtttgcccta tgctcctgaa aattggccac gtcattggaga 420
 catatggcac tggaaaagtg gaagc 445

<210> 54221

<211> 328

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-043-Q1-K1-F10

<400> 54221

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 gggttgctcta gtatgatgtg gagcgtctag ttaaaaaaaaa tcagtntagt atgaagcacc 120
 gtgctgctct gaatattaac aggcaattaa ggcaaggtgc tgtttcgggtt tgggtggaccg 180
 catgttgacg ataataaatt agttgttttg tcatttgcgt ctctatcgac tttgctagtt 240

tgcttctttt ggccaccgcc caactagtcg ctttcaagag ataaattaaa tagaaacaaa 300
aatgtaatta tgctacaaat tcacctct 328

<210> 54222
<211> 376
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K1-F2

<400> 54222

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cccccggaacc tgcgtgtgac gcctggacgc cacgtccagc tgacgggtcc gctggagcag 120
ctgatagacc ggctggtgaa ggagaacagg gtgggtggcct tcatcaaagg atcaaggagc 180
gctccccagt gcggtttctc gcagaggggtg gtgggtatcc tggaagcgca cgccgcggat 240
ttcgtgaccg tggatgtgct cgacgaggag cacaaccacg ggctgagaga aacctcaag 300
gcttacagca gctggccgac gttccctcag gtcttcgtcg gaggggagct cgtgggaggc 360
tgcgatatca ttctgt 376

<210> 54223
<211> 340
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K1-F3

<400> 54223

cgcgctccgcg gacgcgtggg ctttcctcaa cctgctcatg ggcacgctca agatcgtcgc 60
cgactactac cccggccggg tgcaccgcgc ctctgctatc gacgcgccct ccctcttctc 120
cgtcctctgg aaggagtgga ggccgttcgt ggagctggcg ccggcgacgg cgggtggtgtg 180
ctccctggac ttcgaggact cactggagga cgctccttc acggcgtacc cgcggaaccgc 240
gtccctgcgg ttcgagccgc cgccggcggc ggtcacggtg aaggccggcg tggggtcagc 300
ctcgtcgcgg ttctccgtca cccccaccga caaccccgtc 340

<210> 54224
<211> 476

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-043-Q1-K1-F4
 <400> 54224

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 tgagctgtac ctgttggtct tcctcctcgc tcttcttggt tcgcgctggt tgccgggagc 120
 tgggatcgaa agtactgctg ttgttcgcac ggcgaggcgg cggcggagac cggtcagaag 180
 gaatgtcttc ggcccaaadc gcgcggcag atcatgtgtg ctatgtgcac tgcagcttct 240
 gcaacacagt tctcgcggtg agtgtcccgg ggaatagcat gctcaacatc gtgacagttc 300
 ggtgtggaca ctgcgcaaat ctactgtcag tgaacctgag agcactgatg cactcactcc 360
 cagaacaaga tcatcagctc caggagaaca tcaaggtcca tggcatcaac ggcactttgc 420
 acgatgatca tcagtactgc ggccatttgg atcagctcgg ttcttcttcg tcgtca 476

<210> 54225
 <211> 485
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-043-Q1-K1-F6

<400> 54225

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 ctgcacagca acgcatcatc cttctggaac catctcgccg gcgcgcacca caatccacaa 120
 cccgtcgaag cgaagcaagc aatggccgga gtcggatcga aggccctcgc cgttgccgcc 180
 gttctggcgg ccgtctcctt ctccgtggcc gccgcggccg aggcgcgcgc gccagcccc 240
 gtctccgccg ccgtcgcggc gtcgtcgccc ttccgcgcgg ctctcgtcgc ctccgccgcc 300
 gccttctctt tcgccgccgt ccgccactga gccgatgggg cctcgtgcct gcaggctacc 360
 tagcagtacn ttccccgccg ncgccgnccn cgnctagatc tatntattgg agtgctatcc 420
 agtagtacta gtagtagtga gattttgtcg gtgctgtcgt gtccctcgtcg cattttggtc 480
 ggatc 485

<210> 54226

<211> 359
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-043-Q1-K1-H2

 <400> 54226

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 cggcgggcggc ggcgtgacag gcaggcggga cgagccgtcg tccgtcgtcc gcggcgacgg 120
 gcggcggtgc ctgggcctgc cgctcatccg catgctcccc gtcgtcaagt tcaactgccgc 180
 ctctcgcgac gccggcgccg gcgctggtgg cgtggcgccg aggatatccg tgtcggagtg 240
 cgccgtgtgc ctgatcgagt tcgtggagcg cgagcgcgtc cggctgttgc ccaactgctc 300
 ccacgccttc cacatcgact gcatcgacac gtggctgcag ggcagcgcg cgtgccccct 359

<210> 54227
 <211> 447
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-043-Q1-K2-A12

 <400> 54227

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 ctccatacgg cgcacacgag cgctccctgc agatgacctc ngctgtggtg gagcgcgtaa 120
 ccaacgacga cgggagcgta gctcgttgc ttgatccaac gctgggtgga gaccacaggg 180
 aagacgagct agcggtcacg ggcgaggtga tccgggcctg catgcanagc gacccgaggg 240
 gaaggccgag catgagggag gtcgcccca ggctgagggg gcccggtgggt atctcgccgg 300
 tcgctgcgac gccgaggctg tctccgtctt ggtgggcccga gctggaggtc ctttccgccg 360
 cggaagcaag ctaataatag tgggcgagag gacaggacag gaacagggca ngatgatgtc 420
 gcgcaatctg accagtttgt tctcaag 447

<210> 54228
 <211> 466
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-043-Q1-K2-A4

<400> 54228

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gcaacagaca gtgatcataa acctgtcaaa tgtgtgttcg agttagatat tgctcatgtg 120
gacaaacaaa caatgaggca gaagtatgga gaaataatgg gttcaaataa ggaagtgcct 180
gactcacttc agggcttgga ggctttgcct gaagtagata tcagcacgaa tgacatcatt 240
ctgcaagatc aaaacccttt tgttgtgaaa ctgcacaaca gaagtacaaa agagttggct 300
tgttttgaga tcattgggtca gacaccaaag tcatctggca cacctttctc aggtttccct 360
tcttggetga aggtttctcc ggcagtcggt ataatttctc ccagacaatc tgttgaagtg 420
acgttgcaac atggacaaat acgaagtcaa gaatatttta ctggga 466

<210> 54229

<211> 460

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K2-A9

<400> 54229

cggaattccc gggtcgaccg acgcgtccgc gccttctctg cttcttctc cccagcacgc 60
acacgcacac gcacacaccc agccttttgg ctgcccgctg ggccgtcaga gagagaaacc 120
gagctctaac taactgaagt ggcgccaca tagctagcta ctcttctgat cctgagcgcg 180
cacgcgccat ggctcaggag gacgtgcacc tggacgacgc aggcctcgcg ctgggcctgt 240
ccctcggcag cggcagcggc ggcgctctg gtgcggcgcg ccacggtggg atcagccgcc 300
ggctgagcag ggaggtgcgg ctgccgtcgc cgcacccgct ggagccgctg ctgacgctga 360
gcttgccgga cgaagcgacc gcgaccgggt ccggcggggg cggggcccgc cacagcgtgt 420
cgtctctgtc agtggccggc gtgaagaggg agcgcgctgga 460

<210> 54230

<211> 516

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-043-Q1-K2-B1

<400> 54230

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cggaccaggc gaaacatgcc gccgccggtg gcatcgtgcg gagcgggagc atgtggacgg 120
cagcggcaca cgtgatcacg gcggtgatcg ggtccggcgt gctgtcgctg gcgtggagca 180
tcgcgcagct ggggtgggtg gccgggccgg ccgccatgct cgtcttcgcg gccgtgacgg 240
cgctccagtc cacgctcttc gccgactgct accggtcgcc ggaccccgag cacgggcctc 300
accgcaaccg cacctacgcc aaagccgtgg accgcaacct aggtagcaac agctcgtggg 360
tgtgcatgct tctgcagcac acggccctgt tcggctatgg catcgctac accatcacgg 420
cctncatcag ctgcagggcg atccttgagg cgaactgcta ccacgagcat gggcatgacg 480
cgactgcga ctacgatggc aactactaca tgctca 516

<210> 54231

<211> 351

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-043-Q1-K2-B12

<400> 54231

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ccgcactcac accatttcac catctctccn gcggggcaga tcctctacgg tcgccagcct 120
ccccctcctg ctgctgcctc ctgccttcaa gcaacacccg aagcggcaac aaccaccacc 180
accaccacca ccggacctgc ctgagcgacc ccttggtctc ccaactccact gaagcagggc 240
gagagagagt aaggaggagg aggagaagcc atggcgagcg acggcgactg taagggccgc 300
gtcgctacgg cgccgggggc aaggtacggg tacgcggcgt acggcggcta c 351

<210> 54232

<211> 410

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-043-Q1-K2-B2

<400> 54232

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 caactcctaa cccaaccact actccagcta gctcacggcn cggcgcagct gccatggcct 120
 tccggctgat caacaacctg atcggngtcc taaacttcgt caccttcctg ctctccgtcc 180
 cgatcctggg cgcgggcatc tggctgggcc accgcgccta ctgcacctag tgcgagcgct 240
 acctctcggc gcccgtcac ctcgtggggg ccttctctct cgccgtcttc ctggcggggc 300
 tcgtcggcgc ctgctgcctc gtcacctggc tgctctgggc ctacctctc gccatgttcg 360
 tcctcctcct cgtcctcttc tgcttcaccg tcttcgcctt cgtcggcacc 410

<210> 54233
 <211> 335
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-043-Q1-K2-B4

<400> 54233
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 gcgggtgtgg cagcgagttc cggttccccg accaaccgac gncggctgct gctgaggcgg 120
 atcccttcgc atccgctgca gcagcagctg acgatgatga cttatacagt taaattagca 180
 gtcctgtgtt gtgacgcata ttgagtactt tgcttcgtta tatgcttatt atagtagact 240
 acaagcaaga cgcggagtcg ctgtacctat ataatactta agttaatatt ttggtacgat 300
 cctctgaatc gtgccatgag ccatggtttg tgttc 335

<210> 54234
 <211> 522
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-043-Q1-K2-B5

<400> 54234
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 gcgaagggaa atggcgaccg ttccagggga tctgatctgg cggatgtgat gaagagcgac 120
 tccttcctgg tgaagcagtt tggcaacggc aatgccaaagg tgcagttcac caaggagccc 180

aacaacctct acaatgtaca ctctacaag tactctggct tatcaaaca gaaaactgta 240
 acgatccagc cagctgctgg aaaggactcg gctgtgggtcc tctctactac caagaccaag 300
 aagcagaaca caccgcgaa gctcagccac aagtctgtaa tgcgcaagga gttccgcaag 360
 atggccaagg ctgtgaaaaa ccagggtggc gacaactatt acaggcctga tctgaccaag 420
 tcggcccttg gtaggctgag ctctgtgtac cgcagcctcc aggttgccaa gtctggtgtc 480
 aagaagaaga acaggcagcc tacgcactaa gcctgtgttc tg 522

<210> 54235
 <211> 508
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-043-Q1-K2-B6

<400> 54235
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 cttcaatatg tgaaaaccca gctcttcaac catatanget tcagcaagca atcgcagcaa 120
 gcaacatacc tttatcgccc ttgttgtttc aacaatcgcc agccctatct ttggtgcagt 180
 cattggtaca aaccatcagg ggcgaacagc tgcagcaact cttgctacct ctgatcaacc 240
 aagtagctct ggcaaacctt tctccctact ctcagcaaca acaatttctt ccattcaacc 300
 aactgtctac actgaacctt gctgcttatt tgcagcaaca actattacca tttagccagc 360
 tagctactgc ctactctcag caacaacaac ttcttccatt taaccaattg gccgcactga 420
 accccgctgc ttatttgcag cagcaaatac tactaccatt tagccagcta gctgcagcaa 480
 accgtgcttc cttcttgaca cagcaaca 508

<210> 54236
 <211> 424
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-043-Q1-K2-B8

<400> 54236
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agcagtcggg acgtcgactg ctgcttgatc ccagangggg atttctacct ggaaggggaag 120
 ggtggcctgt tcgagttcct gtacgaacgg atcaagaaga aggggcatgc tgtcgtcgtg 180
 gtcgccgaag gagctggcca ggaactgatt ccccttactg acgatcagaa gcgggagcag 240
 gacgagtcgg gcaacaccgt cttcctcgac gtaggaccct ggctgaagtc cgagctgggc 300
 agatggtgga agaggaaca tcccgacgag cttttcactt gtaagtacat tgaccctacg 360
 tacatgatcc gagcgggtccc tgccaacgcc agcgacaact tgtactgtac tttgctggct 420
 catt 424

<210> 54237
 <211> 479
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-043-Q1-K2-C2
 <400> 54237

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 ccaacaatgt gcagccaaaa tattttgctt ccttatgctc gctgggtctt tctgcaagtg 120
 ctgctaccgc aaccattttc ccacaatgct cacaagctcc tatagcttcc tttcttcccc 180
 catacctctc accagcgggtg tcttcagtat gtgaaaaccc aattcttcaa ccctacagga 240
 tccaacaggc aatcgagca ggcattctac ctttatcacc cttgttcctc caacaaccgt 300
 cagccctatt acagcagtta cctttgggtg atttgttggc acaaaacatc aaggcacaac 360
 aactacaaca acttgtgcta ggaaaccttg ctgcctactc tcagcaacag cagtttcttc 420
 cattcaacca actggctgca ttgaactctg ctgcttattt gcaacaacaa ctaccattc 479

<210> 54238
 <211> 440
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-043-Q1-K2-C3
 <400> 54238

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 taactccctg cttctctctc tatctcctc tctctagcac ccggtgcagc atcaaccccc 120

ctccaatgga gctggcgacc gagccctccc aagctcctct ctcaccttgg caagctctcc 180
catggcgtct cccctcctc tacggcagta aggaccgaga gatgatgatc gagccagtga 240
tgtggtggta acaacaaggt gcagttggtg gacgtactga aggatgatgg acttaaccag 300
tggatgctcg ccgagcaagt acctcccca acaaacta tctaagtgtt aaattaaagg 360
tactcttttag gatgtttggt tgatggtgtg acttggcctc catccctgcc accgggatag 420
acggtcgagt gggttactgc 440

<210> 54239

<211> 488

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-043-Q1-K2-D2

<400> 54239

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tctaccgccg gcaacgcaa agttcttggg cctcctcctc ggcgactttt ccgccggcga 120
caggaaacaa cgaaccaaac cacttctctg tcgagaggcg tcgcgctcct ctcttcgccc 180
tctgctgtta tttttcttaa cccggctntc tctcgattgc tgcgtaaagt tgaagatgag 240
gaagctcaag ttccatgagc agaagctcct caagaggcac aatttcttgg agtacaagag 300
ggagggcggc caccgcgagg cgctcgtcac acagcgctac cgctcgtgg agagggacga 360
ctacaagaag tacaatggga tatgcttaat ggtgcaaaag ctcgtaaca tcataaagca 420
gatggacca agagaccctn tcagaatcca gatgacagac ttgattctcg ataagctgta 480
taatatgg 488

<210> 54240

<211> 166

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K2-D5

<400> 54240

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gttttccttc gtgtaatcgc ctagatatat atatttccat ttctaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaataa 166

<210> 54241
 <211> 458
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-043-Q1-K2-D9
 <400> 54241

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 gtatccaatg aacgccaaaa gctgttggat agagcagcgg ctgcagagaa aagattccaa 120
 aaaggatgga atacactcag ggaagaaggc cgttccattc aacacgagtt gcgtgagatt 180
 agtgatattg aaaaccaagc agtaggtctg aagggaattc ttgatcagct tcccagagca 240
 catgcatctg aatttcggtc gaagatgtct ggcctagctt ctgaggtaa gaaggagaag 300
 cgagtgtctc acgccgccct cacgaagatt gtgaactacg gtgtcccat ctgactgcca 360
 ctccagccag ttgttctgaa ggtccattgt attgtatcag atttttgtga aggaagacat 420
 gttcgatgtg taggggtgaac gctatacttg ccactttg 458

<210> 54242
 <211> 207
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-043-Q1-K2-E10
 <400> 54242

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 ttatttttaa atataaaaaa aaaaaacttt tccaattata ttatttaata aaaaataaaa 120
 aaatgtaaaa aatctttttt atatgttcgc ccactcaaa tttataggaa aaaaaaaaaa 180
 ttctactttt ttttaataaa actttta 207

<210> 54243
 <211> 117
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K2-E2

<400> 54243

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aaaaaaaaaa aataaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaggaggt ttgttttt 117

<210> 54244

<211> 500

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K2-E5

<400> 54244

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ctcaactcag ctgggagatc tagagaatgt aactgattct gcagtgcgaa gggacattca 120
aagtagtgca gttcgcacgg gttctctatt tcagaacctt ggttctttgc ttctggaact 180
tgggcgcacc acaatgctcc tgcgtataaa tccgtcatct tcagaagcgg ttgtaaactc 240
tggaaccagct ctttatatat ctccatcagg gccaaatcct cttatgggtc aacctgttcc 300
atttccagga aggtctgtcc aaatgggtac tttgttttct agtctggggt cacaaggatc 360
tgttctacat ccgagagatg ttgatatcca tgtccgcaca agtgggtccg tgcttgagc 420
cagtactaac ccaagtgatt cagctgggtc gcaagcgcac caaatgtga ataggccagg 480
agatgcttcg catgcaaata 500

<210> 54245

<211> 153

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K2-E9

<400> 54245

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aaaaaaaaagg gcgggccttt ttaaaaaaat ccaggcttac ttacccttcc atgcaacctc 120
ataacttttc tataccttca cctaaattca att 153

<210> 54246

<211> 443
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-043-Q1-K2-F1

<400> 54246

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aaaacttttt ttggacaaaa aaaaaaaaaac ctgttttcag gagggggatg gcaaaattca 120
ctccacagaa taatgcgcaa attccatgga ttctgatact agaacatggc cgtggtgtgt 180
ttcacaggac ggcgcctgcc tctgatttga gggcgaagtg gaggagcatg canaggaaaa 240
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attactaacc ataccttcat ttctctgtgt ccactctgcag atctgatagc cgtgacatgg 360
aacactgacg tgggtacttgt acatagcgaa tgtgcaagta ngaaatgagg aggggtttctt 420
ctaattactt ttgcagccct taa 443

<210> 54247
<211> 482
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-043-Q1-K2-F6

<400> 54247

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acagcaacgc atcagccttc tggaaccatc tcgccggcgc gcaccacaat ccacaacccg 120
tcgaagcgaa gcaagcaatg gccggagtcg gatcgaaggc cctcgccggt gccgccgttc 180
tgggcgccgt ctctttctcg gtggccgccc cgcccgaggc gcccgcgccc agccccgtct 240
ccgccgccgt cgcggcgctc tcgcccttcg ccgcggctct cgtcgccctc gccgccgcct 300
tcctcttcgc cgccgtccgc cactgagccg atggggcctc gtgcctgcag gctacctagc 360
agtacttncc ccgccgccgc cgccgccgcc tagatctatt tattggagtg ctatccagta 420
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<210> 54248
 <211> 350
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-043-Q1-K2-G5

 <400> 54248

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aagtgatcaa aatttggtta catatgatga tgaagatgga atgcctcgta ttatgcatta   180
ttcaaaaaag tctttccttg aaaccattca agctcagaat aagctatctc acatcaagag   240
caaatagtga atttgggcct ttgaattggg tttcttctgg cttcataaag acttgtggtg   300
atctcaggat tggtaaatat gaaagctgtg atatagtcaa catgttctct               350
  
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<210> 54249
 <211> 370
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-043-Q1-K2-H2

 <400> 54249

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gccgtcntcc gtntccgcgc gcgaccggcg ggggggcctg ggcctgccgc tcatccgcac   180
gctccccgtc gtcaagttca ctgcgcctc ctgcgacgcc ggcgcggcg ctggtggcgt   240
ggcgccgagg atatccgtgt cggagtgcgc cgtgtgcctg agcgagttcg tggagcgcga   300
ggcgctccgg ctgttgccca actgctccca cgccttcac atcgactgca tcgacacgtg   360
gctgcagggc                                     370
  
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<210> 54250
 <211> 449
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K2-H4

<400> 54250

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accttcgtcc ccgtcccgga tccggggcgc ccctgatgcg gtgcccgcgc ggcgcgatcg 180
cgtgacggac ggccgccatg gatccccccag gccgcggcga ccaaggcgag gcgccgcagc 240
cgcagccgct ggagtggcgg ttcgctcagg tcttcggcga acgtgccgcg ggccaagacg 300
tccaggaagt tgacatcata tctgcaattg aatttgacaa atctggtgac catcttgcca 360
ctggggataa aagaggacgt gtggttttat ttgaaaggac agatgttcgg gatcagaatg 420
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<210> 54251

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-A12

<400> 54251

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tatgtttgcc ataggctctc atgggtggtt ttactgtgag aatgacctcc aaagcctgat 120
aagtgactgc aagacatacg tgatgttccc agctaatacca aaggctccctc cttcggatgc 180
ttgctgtggt gtcataaga aggcaaactg ttcttgcttg tgctccaagg tcaccaaaga 240
aactgagaag gttgtgtgca tggagaagggt tgtgtatggt gctgagcagt gtaagaggcc 300
atgtgagcat ggcttccagt gcggaagcta caagggtcca gcaaactgat gatatcgcaa 360
gaggggaagcg cttgacgtag tcttttagatt tcaattgttg cagccgatca accttcttag 420
ggttgtataa ta 432

<210> 54252

<211> 224

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-A2

<400> 54252

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taagtgtaaa ttggggttcc cgaagggttg tttatgccca tttcgcttat gagcttctct 120

ataacatata gttaacactt aacagctgct ccgcatttgc aatctccctt gtttcataat 180

gagtcgactg atgggtatcaa tctgtcaaga tatatttggg tgaa 224

<210> 54253

<211> 283

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-A7

<400> 54253

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gagcatatat aaaacaatct aaagaaacca aactaacata cccttgcatg ctactaaata 120

actcttatct agtttcacca aaattcatct cattggccgt cgtttaacaa cgtagtactc 180

tgataaaacc ctgtctttac ataccttaaa tcgccttgct acaaattccc attttgccaa 240

ctggcttaat ttcaaaaagg cattcaccga tcgaccttcc cat 283

<210> 54254

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-B11

<400> 54254

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tgtgggaggc ctgtgataat gcccgttatg tctcaacatc cattttcgtg cattccatgt 120

tcttcaatac ggacttgaaa catgaattct gattttctta ttactacctt caagtttcag 180

ctaaaatact ataaaacaaa ctaacatata tatactaaaa aataaactaa tcttccttcg 240

atctagacaa ccttacctta cgaccacgct cttatgcaca acaatatatc tttttcatac 300

ccactattat atttgcattc accacttgca caaactttgt tgcttactaa tacctttttt 360

tgctacttta ctaaattttt actctaaatt gttatctttc aaattttcaa tttgtt 416

<210> 54255
<211> 364
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-C11

<400> 54255

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gtgaacaaca aggacatcga gaacctcaag gtccagggtg agaagtttgc cgactccttc 180
gacatgcctg ggttcacgct tgagagcatg aaatacaagg agtagatatg cctctttcat 240
gcgcggcaag gtctctctgt accgatgtct ttccttgtgg tggctcatgg tgccatggca 300
ctgcattgcc gccacactta cgatgatgat gatgggttat tgattttgtc tacaatgtca 360
tcat 364

<210> 54256
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-C12

<400> 54256

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ttcagcgggc gcgtccaggg tgaacccgaa tgcccatcac catggcgggg ggcaagatcc 120
agaagaagcg ccacggcgcg gcgggagggc cccggctgca gggcggtatc ccgttcgaga 180
agtccaaggg gcagcacatc ctgcggaacc cggcgctggg ggactccatc gtcgccaagg 240
ccggtctcaa gccaccgac accgtcctgg agatcgggcc gggcacagga aacctcacca 300
agcgccttct cgaggctggg gtcaaggccg tcgtcgccgt cgagctcgac ccgcgcatgg 360
tgctcgagct caaccggcgg ttccaggggc accgctctc ctgcgcctc aaggttatcc 420
aaggagatgt cctcaaatgt gatctcccat ac 452

<210> 54257
<211> 191
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-C5

<400> 54257

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gagtctttta aggggggtgct tcagggtgtgc gtgtttgcgt tccttctgac tcggtgtctg 120

attaccaaatt tctatctgat gtatccgctt cagtttcgaa ttaaccatgc cagaagcttt 180

taatattttc t 191

<210> 54258

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-C9

<400> 54258

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aatctgacga ttacaaagga tatgaaggat tctatatttg tgtggtatca gctggatgac 120

ttttaccaga accataggag gtatgtcaag agccgtaatg atgcacagct aagagataaa 180

agtaaggcga gtgactttac caattgtgat cctgaggcca aaacggtaga ctgaaaacca 240

attgtgcctt gtgggtcttat tgcattggagc ctgttcaatg atacatataa actcattcac 300

aacaatgtaa ccttttagagt ggagaataat gacatctctt ggaaaagtga cagagaccac 360

aaattctgga gtgatgtctt tccaaccaac ttttaa 396

<210> 54259

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-E12

<400> 54259

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gcggcgtgcg atcccaagcc gcttgggggtg ttctatccgg cgttgatgga ctgagcgaaa 120

cccgcggcag catgctgctc caccctgcgt gcgcaggagg catgcttgtg cgtgtacgcc 180

aaagacccca agtttgcaaa atacatcaac aaccccaaca ccgccaaaac ctttacctcg 240
 tgcggcatag ccatcccca atgctaagca agcgctctgc gtcgtcgctt cgcttgctct 300
 tgctcttggtg tgtaacatat ccagcttatg aataaattat gtggatcagt taattagtgg 360
 aaaaaaaaaa attaatattat ttatttttat atttt 395

<210> 54260
 <211> 444
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-045-Q1-K1-E2
 <400> 54260

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 ccgatcacc accaacatac tacgaagaca tgcagcgctc ggtgttctgc ctctgcccg 120
 tgggctgggc accgtggagt ccagggctag tcgaagccgt ggtctttggc tgcattccgg 180
 tgatcatcgc agacgacatc gtcctcccct tcgaggacgc catcccgagg gaggagatcg 240
 gcgtcttcgt tgcagaggat gatgtccgc agctggacag catcctgaca tccatcccca 300
 cagacgtcgt gctgaggaag cagcggctcc ttgcgaaccc gtcgatgaag catgccatgc 360
 tgttcccca gctgctcag ccaggagatg cgttccacca gatcctgaac ggcctatcgc 420
 gcaaagctcc gcacggcagc aatg 444

<210> 54261
 <211> 373
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-045-Q1-K1-E6
 <400> 54261

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 ttatggagaa caatttgct aatgatgtgg gggaattgct aaattattgt aatttcgcaa 120
 gagttccaac atgaccacga tcagtgttg caaacaggaa tgtttaacca gctcaaaaag 180
 taatcgatgt gttcgaactg gtcaatccag ttactcctga agaaatgtcc catatggcaa 240
 ttgatagaga agctaacc aattccataa ctaattttga ggaaaacagt aaagactagc 300

tctgtggtca agaccaataa cgtgcttaag aaattaatat ctgcaatcaa gttggctaata 360
caatggcatt tca 373

<210> 54262
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-E8

<400> 54262

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gcttaccctc aaccgctgag gtggacaaat atgcgaggga agtaccgcaa ggatgctgag 120
atctgcgtca acgtgggtga ggaatccgtg cgtgcatcac ttggaaagag gaagaccgca 180
cctaagctgc cctctggcgc agacgctaag aagcttaagt tttggtagg aaagaacaaa 240
gtagaagaag atgaaagtga tagtgacact gatgtggatg atgaggacat tgaagatctt 300
aagagcgcag atgcaaaatc tgtagaagtt gttgatggca tttactcaa atggatgcag 360
aataaatgag gagaagcttg atccttggtt ctgtttttg 399

<210> 54263
<211> 475
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-F11

<400> 54263

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tctgtcaccg cggcctcgcc ctgcgcggca tggttgctct tacgacggcc tgtgcgctac 120
gccgtcctcg gcgcgggctt tgcgggtctc tccgtcgcgt ggcacctct caagcatagc 180
ccgagggatt cccgcgtgtc agtggacatc tacgacgaga acggggtcgg cggaggcgcg 240
tcgggcgtct cgggtggact tctccatccc tactcgcta aagtgaaact tctctggagg 300
ggtgctgagt tctggaaaga aagcatggat ctcttcgca gcgccgagca agcaaatgga 360
acctcggtat caaatacaac tagtcaagat gataacctta tcttgagaag ggggattgta 420
cgaccgtcta caactgataa agcttgaacc atattgcttg agaatgttca aaaat 475

<210> 54264
<211> 174
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-F5

<400> 54264

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aaaaaaaaat aataaaaaaa attaaaaaaa gatattttat aaaataaaat aaaataaaaa 120
taataatatt aaataaatac atatataaat aataatatat aattatacat atat 174

<210> 54265
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-G11

<400> 54265

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tctgtccggt ctccactcgt ccgggctact agactactac tgagggtttc tgcgggggat 120
ttgtttgtcg ctgactcgcc ggcgaccaag atgaggccgg ttttcgtggg gaacctagac 180
tatgataccc gccactcgga gctcgaccac ctcttctacc gctatggcag ggtcgagcgc 240
atcgacatga agtcaggctt tgcttttgtc tactttgagg atgaacgtga tggcagtgat 300
gccatacgtg ctcttgatgg ttatccattt ggcccttgca gacgcatgct ttcagtagag 360
tggtcacggg gtgatcgaac tgctagacgt gatggcaaca aaccagaagt aaatactaag 420
ccaactaaaa cattgtttgt cattaac 447

<210> 54266
<211> 206
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-H11

<400> 54266

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aaaaaaaaca gaaatttttaa aaaaaagaaa gcaagaaaaa aaaaaaaca aaaaaaaaaa 120
aaaggccccc cccctaag aaccaacct aacgtacca tccatccaac atcataactc 180
ttcaatagag ccacaaaat ccaatt 206

<210> 54267
<211> 129
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-045-Q1-K1-H5
<400> 54267

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accttcaata cactaaacct tacttcatgt tcctagtctt gcttaaggcc cttgcctgtt 120
actagcacc 129

<210> 54268
<211> 170
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-046-Q1-K1-A1
<400> 54268

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tcctgttttg agatacctgc tcctgccgac taccgagagt taccctactc agtctgcgtg 120
ctggcacggc caactaggat atcaactagg atgagtcgag gaggaatggc 170

<210> 54269
<211> 137
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-046-Q1-K1-A10
<400> 54269

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ccttatctga agcatcatct acgtacttct ttaaaactac atcaccactc ttaacttctg 120
ccaaccctac accctta 137

<210> 54270
<211> 357
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-A2

<400> 54270

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gctcatgtct ctactccaca tgaacttgta aacgataccc agatccaggg tgactacata 180
ccttatactc gtagttagaa acctccactt aaggcactat accatgcata ccttactaat 240
ttatcaccta cctttttcaa tcaaatacta gaattgatga tgtcacaaca acatttacac 300
cctccatttt ttttattttt attttcacta tatttttcat tttaaccttt tattctt 357

<210> 54271
<211> 296
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-B1

<400> 54271

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cgtgaaggta gttattgatg cattccacct cattaatcct cagaccatga tgctcgccca 180
ggatccacgt catacatcat catatgttgg gcacctaaat aagccatcta ttcacgctct 240
tatccatggg ttgaatagac actactattc aatcgcaatc aatttaccgc aaaaat 296

<210> 54272
<211> 247
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-B3

<400> 54272

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tgcaccgtct gagttcttag gtgcttcgtg atgcagtggg caaacatacc aaagacgtga 120
tagctgtatc gtttccctat ctgagacgtg gacttattta gcttgctttg atattggtgt 180
cttattttctc ttatgaataa tgtggacacg catgttgtgt cgcccaaaaa aaaaaatata 240
aataaac 247

<210> 54273
<211> 247
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-B8

<400> 54273

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aaaaaaaaaa aaaaaaaaaa aaaagaaaga ataatttaac aacctttcta aaccatccaa 120
gctaactaac tcatacatcc aacataatat catcacaaaa attaacacca aaatccaatt 180
cacttacctc ctattaacaa cattaaaact aaaaaaacct tatcattacc caactaaatc 240
accttac 247

<210> 54274
<211> 257
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-C1

<400> 54274

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ttctcaaagc cactcccaga tccttactgt gatgctcaat agaagagagg tgtccgccgt 120
ccccgaaacg atcaacgaaa gacatgctca gactaatatc atcaagcttg caaataatat 180
gcattttctcc attcccgaga tccgccaatt caaagctatc acccaccatg acacttgcac 240
gttccgacat taacgct 257

<210> 54275
<211> 300
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-C2

<400> 54275

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tgatagaata caaaagggaa ctttgtaagt tttcagtcaa gtaacttctg tagaatttta 120
aaagagcaat actgtaactg aaatgttgct actactttac atcagtttca tcctggggca 180
tataattgca ggtaccctat ctatagaatc ccaactggac caacactcaa ggatttggat 240
gcatgtttct tgacatttca ttacttatca acacctacca atgatactga tcccagttca 300

<210> 54276

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-C5

<400> 54276

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tcaaacttaa atattagcta ttacaagaaa tcttgactca ttaactttta tcgagttctg 180
tactcataat ttctatactc tcacaattat gatcacgtta caaggactct tcgataacac 240
aatcacccaa ttcatgtatt actcctcatg caataacctg ctgttactgg atcgtttcta 300
actgcaataa caatcaaact tattcccatg attcaccaaa gtgaaaagta tcacaagata 360
atagcaatct gtactaataa tcctt 385

<210> 54277

<211> 265

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-C7

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gggtggaacc tgaatcttta cgtcgggtccc ctttagtacc tcgtcatcca aatcatata 120
tgagatcat ggaaacgata caaaagggt agcgtccata ctatatacag aatattaacc 180

acaaccctcc aaatccttat caaccaatct cataaccca tatctcaccg aaaccacaac 240
catggtaaaa acatgggtcaa ggtaa 265

<210> 54278
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-D5

<400> 54278

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ttgggctggg caccgtggag tcccaggcta gtcgaagccg tggctcttgg ctgcatcccg 180
gtgatcatcg cagacgacat cgttctcccc ttgcgggacg ccaccccggtg ggaggagatc 240
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acagacgtcg tgctgaggaa gcagcggctc cttgcgaacc cgtcgatgaa gcatgccatg 360
ctgttcccc agcctgctca accaggagat gcgttcacc agatcctgaa cggcctatcg 420
cgcaagc 427

<210> 54279
<211> 240
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-D7

<400> 54279

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atcgtgccc cctactcca ggttgccata tcatctgcgg ccccttcgcc tgcgactatc 120
accatccatc ataaatagca tcaagcactc gaacttacag cgagattgaa aatgatagaa 180
ggcaactaca tcagatcgat ccaagaagac cccattttcc ttgctgcata ctatgtactc 240

<210> 54280
<211> 160
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-E12

<400> 54280

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aagcagctgg acgatgatct cagcctttt ttaatacaag cttggacagc cagagcacc 120
tccacttggg gctccacctc atgtgtggca ttcaaattctt 160

<210> 54281

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-E5

<400> 54281

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gtatttgact tcattcttat tgagtcgaaa ttataaatta tgggtcttctt ccatcactcc 120
aacatatttt gaaaccaacc atgaatcaag aattagtttc ttaatcccta tatctgattc 180
atttagactg tatectactg catatgatat attgttaggt tctatctatg atccttctta 240
ctactcttca ctgttcgatg atgtcctaaa caatgcatgc aatcatcaag gtgataaaca 300
aaatttttagt aatgacaatt gttcaacatc ttcatgccat acaccactac ttaaattctt 360
tgctaattgat gtttaaagtt gactaaaaat accctttaac ttctat 406

<210> 54282

<211> 288

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-E6

<400> 54282

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cattcttatt cgttcgtatt ttttacatac atgtgctact cccatcactc caacatattt 120
tgaaaccaac cattaatcaa gaattatttt ctttaagccct atatctgatt caattagact 180
gagtcctact gcagatgata tattttgaag cttccatcta tgatccttct tactactcat 240
cactgttcta agatgtccta aacaatgcat gcaatcatta tgggtgata 288

<210> 54283
<211> 454
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-F5

<400> 54283

ataaccgggt cgacggacgc gtccgacgag gcgttcggct catggcatac tataatcttga 60
cccccttcgag gttctcgcacc aggaaggact ttttttagctg gttaagcttg ctacacagag 120
gggccgcgaaa gctaggccta acttgaagggt cggcatttgt cgagaacatg gtagagagcc 180
ttcatcgggtt gctttcttcg ccaagactgg gctggattac gtttcttgct cccctttcat 240
ggtcccgatc gctaggctag ctgcagctca tgtgcttgct tgaggggctg cctcctcggt 300
ggcagcctgc tgtaagtgc tctggtgatt aataatacta ctatgacaga tccatagtct 360
ctgtgaagag tattagtagc agcgctcata aaatctacaa ttacatctat attctcaact 420
atgtaaaaact ttcaaactgt tcatgcttaa aaac 454

<210> 54284
<211> 161
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-F9

<400> 54284

gattcccgct cgacccactc gtccgaagaa actgctgctg agatgggtta ctactcgctt 60
ttggtgggct caaaaactta gttttctttt caacctgcag cccacctccc cctgctacta 120
ccccatcttc cctactacc tcaatctcaa gtactagaac t 161

<210> 54285
<211> 464
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-G1

<400> 54285

attcccggtc gaccacgcgt ccggtcggcg tggctggttg ccaagaacac cctttggatc 60

atgccctgca agctcccgcc cttcgaccgt tatgatgtcc gcgtgcgcat gactgcagag 120
 gggatttgcg gcagcgatgt gcactacctc aaggagatgc gcatgggtgca cttcgtggtg 180
 aatgagccga cgggtgaacgg tcactagtgc tcagacactg tcgatgaagt tgcttcgcta 240
 tggacgcata gtactgctgc aaatggagtt tcgcattgta gctgataaag tgcctacaag 300
 gtgcatccat atgtgcatag gtggcactga atcggggctc actggaccag tttgatattt 360
 gtagtaatat atatacatgt gggagcaaca taatttatgt ttcgatcatc attatccaat 420
 ttgattccct gttataatgg atcacattgg aaaaaccctt acat 464

<210> 54286
 <211> 415
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-G3

<400> 54286
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 ccagcctggt gcccttcttcc aaagcggctg tctcccccat aaataaagca gtcctccgg 120
 gggcggcgaa ctactcctcg tcgccaaaac cctagccctg cttctttgcc atggcgagca 180
 gcgctagcca ggctagcctc ctgctccaga agcagctcaa ggatcttgcg aagaaccccg 240
 tggatgggtt ctccgccggg cttgtagact acagcaacat cttctagtgg catgtcacca 300
 tcacgggacc ccttgacacc ctatatgatg gaggctacgt taatgcaata atgacctttc 360
 cccagtacta ttccaacagc ccgtcatcag taagatttac ttctgagatt tggca 415

<210> 54287
 <211> 406
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-G5

<400> 54287
 tcggtcttga attccccgggt cgaccgactc gtccgggatg gtagagctaa taaaatcaag 60
 agtattatga ttctactcct gaaacccatg agtgggtggat gcattaagaa atcccaagta 120
 ggaatgcagg cattgcacat gacttcacag gaacatgccg ctcccttgagc cgtgatagga 180

atctcactga atcgggtccca ttctctagta tgagaatgag acctgggtcat tcttctccag 240
gctttccact ccaagcatca cctcagctat gcactgcagc agttagggaa gcaaaaaaat 300
ggttggaaga gaaaaggcag ggactgggag taaaacctga agacaatgga tcatgcacat 360
taaatacaga tatatttagt tctcgtgatg actctgacaa gggttc 406

<210> 54288

<211> 307

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-H1

<400> 54288

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tggataggga ggctgttaca ttattggata agtgggtacc caggcatgcc agttgcagtc 120
ttccaacatt ttttgataag gctgagaggt taatcaccat caattccaca tccagcagtg 180
attgatgcct ggttcagttt ttcagctcct tcgacttggt ttttagaatt caaaagtga 240
tcaactgtga ctttttgggtg cttgtctaga ccatgtatct tctatgggga tcgacatatg 300
tgatggt 307

<210> 54289

<211> 186

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-H10

<400> 54289

tactcggttc cggattcccg gggcgacca cgcgtcctgg gcaatggaga atctggtgta 60
tatcttaatg ataatttgca caagtcacat ttagtacata cttaactgat tgatactgat 120
ccaagtgtga actttcacga caatgggtggc ctctctgtgt cttcgtctca aaattcactt 180
gtgtac 186

<210> 54290

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-H3

<400> 54290

tccggattcc cgggtcgacc actcgtccgg gggaaagcat gcttaaagaa agtgttgctg 60
tatcaattgt cttcaggagc taatggaact agatggggta tgctaggaat aggtaactga 120
tgtctagcag gcagaaaatt ggttttcctt aacttcagct cagcgcatat gtgacatgtt 180
tcttgcaacta gataaggata caaacagtac actgagcaaa caagaactca aggaatatgc 240
agatggcaca ttgactgaga ttttcattga aagagttttt gatgagcatg tccgcctgag 300
caaaattgga agtggaaaca gtctcgagat ggacttcgaa agccttcttg gatttggttt 360
ggctct 366

<210> 54291

<211> 214

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-H8

<400> 54291

acctacaatc gtaatgtaat gtgctggtat tctcgaatgc catatccgat agcagccttg 60
gcttggaata acgtagtggc tgactgatat gccagtaggc acctgtctag tacttacaga 120
actacaaaaa gtttgtacta tacatatatg gacaacctta taagtggcta tgtgtgtacc 180
aaaaaaaaaa aaaatattaa taattttata aaaa 214

<210> 54292

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-047-Q1-K1-B8

<400> 54292

tcccggctcg acccagcgt tcaggatcct attgccctca cgctaccatt tccgccaatt 60
catcacagcc accagacttc gctcgctta cgtatacacc aaccacctc cataaaccgt 120
atgcacagcc accttaatgg tatctcttca tcttctctt cctacaacag gactacttcc 180
atctagctca tgacagatac caccttatct acattttctc atcctgtatt gctaatttta 240

tctccctatt tcttcttttt tatttttttt tttttatttt tttatttttt atttttttat 300
 ttttttattt aatattatta tttgttttat ttttttattt ttattttttt ttttttactt 360
 tttttctttt ttattttttt tattttattt ttttt 395

<210> 54293
 <211> 275
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-047-Q1-K1-C10
 <400> 54293

gctattantc tactctttta aattcttgtg ctccactgct ggctatttat gctatatgtt 60
 ggggtacctca tgtcaaagtt tatctcgtcg ctgagctgta ctaatcatat taattgtacg 120
 tgcgagtaag aagttgatgg gtcaagttgt gtgtgtaatc ggttgtgccca caacctgtac 180
 ctaatccttc gcttcgctta ccacttacca acttattttt atattttttt tttttaaagg 240
 gcgtccgctt tataggatcc aagcttactt actct 275

<210> 54294
 <211> 364
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-047-Q1-K1-C12
 <400> 54294

cggaannccc annncgaccc acacgtacgc ttcaaacaca tattactaat aatgtttccc 60
 tttcatcata atcccccta caaaaggaac cgttctcttt tatacaacaa catccttctc 120
 aanaactcca acatattcta tccaaataat actctctatc tacatttgac actttcaaac 180
 ttaacctttc atttacataa tattacccaa acaaaccacc aacttttcta ttttattcta 240
 agatatttta tccaaatata tattcttata taaacaatct ttttgatatt ctacaaaacc 300
 attttaatcc tatatatgat ttttctccaa ttttaacttt ttatttcatt ctattctttt 360
 attta 364

<210> 54295

<211> 86
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-047-Q1-K1-D12

<400> 54295

ggtccggaan nccccggcgcg acccacgcat cgcgaacaag actctacaca acctgttctt 60

cgtctatatg aggctggggtc tcttca 86

<210> 54296
<211> 311
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-047-Q1-K1-E11

<400> 54296

tccggaannc cccggggcgac ccacgcgtcc caaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60

aaataaaaca aaaaaaaaaa aaaaacaccg aactctaaaa aaaaaaaaaa aaccaacca 120

acccaaaaaa caaaacaaaa aaaaaacaaa acaacaaaaa aaaaaaaaaa acaaaaccat 180

tggcccatc tcaaatatac ttacctcaac ctccacacaa tttaaagaaa aattcccatc 240

acttctact aaaaaaagaa ccaaaatccc catttcaaaa acaccaaca ctaaaacaac 300

cttaaaccac a 311

<210> 54297
<211> 262
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-047-Q1-K1-E12

<400> 54297

gtccggaaaa cccggcgcgga cccacgcac cgtttcattt caccatgtcn ntcagcaatc 60

gatttgctgn ggcncncnc ctcacctcgg ccgtttattt tatatcttct ccacacctcc 120

caccanctnn anccaaaaaa tactaaacaa tatcaccttt acatactttc tataccatta 180

acaattacct ctatTTTTTc aaaaactcta tcttttatct ctttatcttt attcattatt 240

attttactat ttttttaaatt tt

262

<210> 54298
<211> 271
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-047-Q1-K1-E9

<400> 54298

taaagacccc ancatcaatc gttctgttca tatactgctt catctgtgtg tggtttctgg 60
gttttctatc tttcttccac anccatccca agagcacaaa ccagatttgt accctctcaa 120
ctataataat atagttggat tccacccgca cacatatagc tgacaatcct taccttacac 180
ccaatgcata taacaattaa tatctcattc ctctaaaaag agagcctaaa gccctatttc 240
attttcaccc attactaatt ctgattaaac c 271

<210> 54299
<211> 89
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-047-Q1-K1-F9

<400> 54299

ccgggtccga cgccacgccg tccggcgnga acctacaaca ccgcactcta cactactcca 60
gtctgtgaat ccgccccacc cccgcaccc 89

<210> 54300
<211> 492
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-047-Q1-K1-G12

<400> 54300

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ggctgatccc agaccatgct aggcgncgtc ttgttctcac ttattgccc accgctggac 120

cataggcgaa ggctctatgg tgtttaaaccc ttgctctttc tgattcttcg ttgtgccata 180
 ggcaattcaa ggtgtagaat ctgaccatta ttggaaagcc aaacacgagc tggcgccaat 240
 gtgttgcata atgagaggcg gtatgttcgt gcagccagcc ttttgccgcc tgttttaatg 300
 caaaatctga ttttacttaa gcagtgtgag gggaagtgtg ttggtttatt ttattatttt 360
 tttatatttt tctattttatt ttttttttta ttattatttt tataatgtgg ttttcttttt 420
 atttatactc ttattttttt tatttttttc ttctctattt tatttttttt ttttttttgt 480
 ttatttttatt at 492

<210> 54301
 <211> 384
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-047-Q1-K1-G7

<400> 54301

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 aaatcagcgg ccaaaagaaa ctcgagtgtc gtcagctaga ccatattaca tgccggacaa 120
 tttgttcgga gacctgatcg acgtgaagag ttttgccgcc ggaagcaaga tcagcaggtc 180
 taccagcatg ccgagtccaa aggggtggtg ccagcctatg atcggtagaa acaaataggc 240
 ctctgctgtt taagataggg atgagcatat atttagctgg tagccactgt cgtttggttt 300
 gattgtaatt ttgctgtctt tttttacgtg tcaatttggc tgattttgtt attatgggta 360
 tatttttga ttttcttttt tttt 384

<210> 54302
 <211> 414
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-047-Q1-K1-H7

<400> 54302

tcggtctcgg attcccgggt cgactcacgc gtccgccac tcgtccgggc ttgctccgg 60
 ttattcccag gtgtcagtat ggactggttt tgtttgtatt ccattctact gtttcacaag 120
 ttacatgtat atttatcgag tctattgaat atagttctta ttatcatttt tcatgttcaa 180

tctctttttt tcttgatcag atcaattctt ttctttaatt attttttttt cttttttaaa 240
 atttttttat atattttttt tttttttttt ttattttttt tttatttctt tattcttttt 300
 ttttttatct attttttata ttttttttat tttttttttt tattttatta tattttttatt 360
 tttttttatt tttttatttt ttattttatt ttttttata atatatattat attt 414

<210> 54303
 <211> 309
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-048-Q1-K1-A7
 <400> 54303

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 acttccctga taagattgta tcgtaggcag ctgagttcca gagcaggatc ggtttcgga 120
 tgattggtgt gggtgacatc atatatitgg ttggaggagt gattggacct gggccgagaa 180
 accaatgcat taagttgcat tctgatgttg atatctggaa cgtcacaatg tgtgagccaa 240
 cctggagacc agtgtcgtcg atgactcatt ttcgaggtag catctgtggc tgcgctttgt 300
 tgaggattt 309

<210> 54304
 <211> 320
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-048-Q1-K1-B3
 <400> 54304

cgggtcgagc cacgcgtccg cgctgctttc cccccaccgt cccactttcg ttacgccgcc 60
 acgcttcttc ttccctgtcc ggttcaacct ccaaccctgc cggtgcccgc ggcggctgat 120
 taacacaata ctttgtcgag agacgtaata gtttctgaac tcaccgcgct acgcccgatg 180
 tcggagactg cggtccgat cggcctgtca tgggctccca atgcttcttc ctttgcaacg 240
 accagcggcg gcagctagat cgaccacgcg ccggatccga gcaccgcgca tggctcgctc 300
 tggaagcgca cgagcgagct 320

<210> 54305

<211> 147
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-048-Q1-K1-D2

 <400> 54305

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 ccgcccccttc ggccggcatga gcngggccct catctactgc accgccagca tctcctgcgg 120
 gcacatcaac ccggcgggtga ccttcgg 147

<210> 54306
 <211> 158
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-048-Q1-K1-F5

 <400> 54306

 ttccccgggtcg acccactcgt ccgcagcatt tatecttgct aggccttcttt gtctacaaat 60
 aaacatggta tttttcaagg tagtcctttt ttactatct cttgagaagt ttatttttat 120
 tattttacat ttcataacat tgttatatat aaactgtt 158

<210> 54307
 <211> 343
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-048-Q1-K1-G11

 <400> 54307

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 aattgtcttt atagataacc ggtctttcct tagatacttt atacagtcna atgccgcatt 120
 ttagtcgatc tttcttctcc agttgctgtt ggtgctagga ggccttgagc tgttgagggt 180
 acttgccctg cntntattat gacgtatatg tacaagtctt tgtgttgaca attacacggt 240
 gtttttaatt tcagtgatac acttcagtc cttcatacgt acttcctgga tgtttcaatt 300
 tgcattctag ttagatattg atccatctgt tctatattaa aat 343

<210> 54308
 <211> 295
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-048-Q1-K1-G5

 <400> 54308

 attccccgggt cgagccacgc gtgcgtgctt aaagagttat gagagctagg attcgtttgt 60
 gcgaacatgc aactgtctcg gggacgaggt gttaaatacga agcatgctgt ggtggaaaac 120
 ctgtaagaca acgggtggca cctgtctcct gatgaggatc aaaatgctag tccaaaacaa 180
 actactgtga agtatatggg agtgtccctt tcagtctcca caccattttt ttgggttaaa 240
 aaatgtgctc aggtgatttt caaacgcctc tcagagaaga gtgctgattc caaca 295

<210> 54309
 <211> 266
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-048-Q1-K1-H12

 <400> 54309

 tcgtactcat gggctgactc atttgtttta aaaaaaaaaa aaaaaaaaaa aaagaaaggt 60
 aaaattataa aataaaaaaaaa aaaaaaaaaa aaaaataaaa aaaaaaaaaa ataaaaattt 120
 aaataaaaaa aaaaataaaa ttaattattt ttattttatc ttatataaaa aaaaaacaat 180
 taaataaaat taaaaactta atttctattt attatatattt ctttattaaa ttaaattctt 240
 ttttataaat aaattttttt tttata 266

<210> 54310
 <211> 62
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-048-Q1-K1-H2

 <400> 54310

 aaaaaaaaaa aaaaaaaaaa aaaaattaaa tttaaaaaaaa aaataataaa aaaaaaagga 60
 ag 62

<210> 54311
 <211> 330
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-048-Q1-K1-H5

 <400> 54311

 actcgggtccg gaattccccg gctcaaggaa acctttatcc atggctggag gtatcatact 60
 atttctgctt gtcaccccc tcgtcgtgag aagggaatgg agtgtcatgg gggagagatc 120
 caactcgttc tcacaggact ccaataattc tagccctgct gaaaacaaac tcgaaccagg 180
 tcctcttttc atattggtta tattggttat ttattagggg tcagtggagct tcgaattgag 240
 taaatctgta attacttcta cactactaat tatcattatg tgactgctcg taaaggtgaa 300
 aagtccttcg catcggaagc atactgtgag 330

<210> 54312
 <211> 231
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-049-Q1-K1-A12

 <400> 54312

 gtctggaatt cccgggtcga ccgacgcgtc cggcatgttg gcggagatat gttcaagtcc 60
 attccctccg gtgatgccat ttcatgaag tagtttctgt cgacgtggac cgacgacgag 120
 tgcacggcca tcctgaggaa ctgccacgcc gctctgccgg acggcggcaa gctcgtggcc 180
 tgcgagccgg tggcgctgt ggagacggac agcagcacca ggacgagggc t 231

<210> 54313
 <211> 379
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-049-Q1-K1-A3

 <400> 54313

 tcccgtcct tcggaattcc cggatcgact ccatgcgtgg atttcctcac caaggaggtg 60
 cagttcgagg acaggtctct cactctgcaa atagggggca ctgctggcca ggaaaggttt 120

cagagtctcg gcgttgccatt ctaccgggga gcagattggt gtgtcctagt ctatgatgtt 180
aattctatga aatcatttga caacctgaat aactggcgag aagagtttct aattcaggct 240
agcccatcag atcctgataa tttccctttt gttctgttgg gtaacaaagt tgatgtagat 300
gggtggcaaca gccgcgtggt atctgagaaa aaggcaaagg catggtgtgc ttccaaaggg 360
aacatcccgt actttgaga 379

<210> 54314
<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-A7

<400> 54314

aattccccggg tcgaccacg cgtgcgcgcg gatgacatat tgaaaaatgt ggaatatgat 60
gctctaagggt ttattttgac ggcttcatt ctgtcatatc gtttaagccc acaatggtaa 120
cgatactgtc ccctgagggt gcagaaaaag aagcagaagc tgggtgggaag acgggtgacc 180
tagattctta tgagattgaa ggcggtgaga caaaagcaga gatattgcaa aacctagctg 240
agttccagtt ttcttgtgtc atgtacaatg gtgccctaga gaatgcatgc agtgagcttg 300
gagcccgtat gtctgccatg gacagctcta gcagaaatgc tggcgatatg cttgatcgtc 360
tgacgcttac ttacgacagg acacgcctag cattca 396

<210> 54315
<211> 240
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-A8

<400> 54315

tccccgggtcg actccacgcg tccgcgatat ccaattttcc ctggagtgtg ctattattgg 60
atgctctgca ggatttctag actttctaaa ataaatggaa ccatacagc tatgaaatca 120
ggtatgcttg cggcggaagc aactttcaag tccctcgttg aaggatctta catggaactg 180
tactgctaga acctcatgaa gtcatggatc tggtagaac ttcataaagc ttgtaattat 240

<210> 54316

<211> 431
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-049-Q1-K1-B12

 <400> 54316

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 ttgtcaatgt gtccttccat cttgtattag tttgctttcg tttttacatt aactagaaca 180
 catgctctgg ttgtggttac ctctatttat gctacaggct tggtagcta ccatatcact 240
 cgctatctac aacgctagtt tgccgcatcg agaaatatta tgtgatattg attgtcgagt 300
 tcttttttct atatcaaaaa atttattact tgtattcata gtcacatttg atgcatttat 360
 gtatacatta ttaatttcat atataggctt ttgatcattt cggcatgtta aaaaagaaga 420
 aatgcttcta g 431

<210> 54317
 <211> 306
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-049-Q1-K1-C5

 <400> 54317

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 tgctccgccc gcgccggtac ganggaggtg caggcggacg aggaggaggg atgagtctct 120
 tcgggcttgg acgaaaccag aagacattcc gcccgaagaa gagcgctcca tcaggtagca 180
 aggagcaca gctccgaaag cacatagatg cactctcgg cagtggaaac cttatggaag 240
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 tcttta 306

<210> 54318
 <211> 262
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations

<223> Clone ID: LIB3079-049-Q1-K1-C7

<400> 54318

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caaccttgct ctccaatttt ggcgacccca cattcccacg gcgcttgaag aaatcctagc 120
cccggtgctgc cgcgctgcag acggcacgca cggcatccat ggagaacgac gcgaaggagg 180
cgaggcaggg gcagcacagg gtgttcccgt gggggatgct caaggtgttc ctgctgctcg 240
gcttagggct gtccgcggcc gg 262

<210> 54319

<211> 325

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-E10

<400> 54319

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accacggcgg cgtccacgac ggcacgaccg tcttctcttg ggagtgggcc aagggcgaca 120
accagcgctg gaagatcctg ccctggtgaa cgtgaacaga gacgagctag atgaatcaa 180
ggaaccttac ctagctgctg ccgccgtcgc ctaattcgtc ctgctccgct ctaagctgta 240
tctgtcttgg gcttcgcgta ctcggttcct gaaaggacga ataatatata gcatgcatgt 300
accggtagcg accatgtctg aatga 325

<210> 54320

<211> 120

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-E9

<400> 54320

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atcaaccttg tgggcattac ttcataacac ccatacttat ctttacttaa cagcaatcac 120

<210> 54321

<211> 96

<212> DNA

<213> Zea mays
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 <400> 54321
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 tcctccagtt cgttatgtga actctgccgt gctact 96

<210> 54322
 <211> 237
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-049-Q1-K1-F7
 <400> 54322
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 gcgcaacgcc cgtgactcgc tttccctgtg cttgccctc tccccatcgg gtttgccgtg 120
 ttcatgggtcc atctggccac gatccccatc accggcaccc gcacaaacc agtcaggagc 180
 ttgggcgctg ctgtcatcga caacaacgac caggcctgtg atgaccactg gatcttc 237

<210> 54323
 <211> 372
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-049-Q1-K1-H10
 <400> 54323
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 agtttgggtac tttaggcaat ctttgcttct tctcagatta aactgtcctg aggcggcaat 180
 gaggagttag cactttgctc gtgagcatgc tgcgagtgat catgaaaggc ttgtctatga 240
 aggatggata ttgtatgata ctggccactg caaggaagga ttgccgaagg ctgaagcatc 300
 cattgcaata caaaggatcat ttgaggcatt ttttctgaaa gctaattgctt tggctgattc 360
 tagtcttgat cc 372

<210> 54324

<211> 135
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-050-Q1-K1-A5

 <400> 54324

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 tcctcatctt cacc 135

<210> 54325
 <211> 74
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-050-Q1-K1-B1

 <400> 54325

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 gtacactacc aaaa 74

<210> 54326
 <211> 76
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-050-Q1-K1-B4

 <400> 54326

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 tttgagtcgt cttgtg 76

<210> 54327
 <211> 60
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-050-Q1-K1-B6

 <400> 54327

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<210> 54328
 <211> 267
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-050-Q1-K1-B9

<400> 54328

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gtcagttgcg tgccatgnca tggctctgac tgatatatga tnatnctcat nccnnctcn 120
tntcctcccc tggcctcctg gggcgcttct ggcgagcagt gtgttggtgt gtgtgggtgc 180
cgcacgctag caggctagcc atgtgccctg ctgtgttgtg tcaccatcca tctataatct 240
tatccatacc ccaccttttg tgtgatg 267
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<210> 54329
 <211> 352
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-050-Q1-K1-C4

<400> 54329

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ctcttctcct ccgtctctct actacgtgct ctgtccattt ctactccac ctaccactc 120
ctcatccatt acaggtcttc atccattctt aacctatgata atctttttat tctttcttat 180
ttctatttta ttaaacctct ttttatattc aattttatcc atttttatct ttccatataa 240
aaaactatth tttaaattht atcttttaaa attcttttca atatccatct caatcaatca 300
caattttaac atcatcttct actttaatth tatattcata ttcattcttct tt 352
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<210> 54330
 <211> 431
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-050-Q1-K1-C6

<400> 54330

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 gaaaatgcat tccgaataat ttcaaatagt gcctataaaa gccctttatc aatcattgac 180
 tttttctaata tatttcattt aatccttaata tttcccttta ttaatatattt tactttctat 240
 ttttttttat tttaccttat atattttcttt taaatttttt ttttatctat tttttaattt 300
 atattttttt tatattgttt tatttttagt ttttataatt tatttttctt gttttttaat 360
 tattttattt ataatttttt tattttattt ttttatttta ttatatatct tttttatttt 420
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<210> 54331
 <211> 454
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-050-Q1-K1-C7

<400> 54331

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 tataataaca ctataatact tgataactaa tataatccca ttttcctgat taatttatac 180
 tttaaatata ctccatgtat tgtcatactt taactatctt cttcttttca tttataaata 240
 ttattatttt aattttttct cttttatttc tttttaatat tcttttttat cattttattt 300
 ttttctttat tttttatttt tattttattt ttttttttat tttttttttt tattatttat 360
 tttttttttt tttttttttt tttttatttt tttttttttt tatttcttta ttatatatttc 420
 tttttatata ttttatatta atttttataa tttt 454

<210> 54332
 <211> 165
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-050-Q1-K1-C8

<400> 54332

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 cctagcatca aagtttacga taacgccaaa aattttattt gcactccaca tcacaccacc 120

atccaatacc attactacct tatcaaacat tactccaaat actac

165

<210> 54333

<211> 226

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-050-Q1-K1-D10

<400> 54333

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acagcatgaa gatggtcacg gttctcaacg ggtcttggct ctgtcagctg ccaccccctc 120

tgcaatgcaa atgccctgcc cctgcgcggg gctgcagggc ttgtacggcg ctggcgccgg 180

cctgactact atgatgggcg ccggcgggct gtaccctac gcggag 226

<210> 54334

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-050-Q1-K1-D8

<400> 54334

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ggagttgatt tatccgctgc agccatgagg aagttggagt cttagtctgt caaggatgcc 120

atctcccaga ttgttgggga tgccaaggag aagaatagga agttcactga gactgtggaa 180

cttcagattg gtctgaagaa ttatgatcca cagaaggaca agcgtttcag tggctctgtt 240

aagttgcccc atattcctcg tccaagatg aaagtgtgca tgcttggtga ttcccagcat 300

gtttaggagg ccgagaagat tggacttgac tacattgatg ttgaggctct caagaaaatg 360

aacaagaaca agaatc 376

<210> 54335

<211> 346

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-050-Q1-K1-E10

<400> 54335

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ctggaacctc agcaacctgc ccacggggggg cgtgggtcgac cgcttgctca accagtggcn 120

gacgctncan gcggccggcc agaccgacgc gcacggcgcc tacagcttca ccggctacct 180

gggggagtac gtcctcactg tcagctacaa caacaggacg acgcaatcca ctttctcgct 240

gtcgccggga gacgagacca ggcacatcaa cgttcaaattg tgatgcgcca acattatatt 300

tagggctcct cggatcggac tacttattac tagctgatgt agtgat 346

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<211> 251

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-050-Q1-K1-F1

<400> 54336

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aaaaaaaaaa aaaaaaaaaa ggaaaaagtt aaatttttaa ctcatacata ccacacccta 120

acaacttcta taactttact ataaattaat tttaaattcac ttacttttac aactttctaa 180

actcttaaaa cacttaaaaa aacctaactt aatcccaatt caatcacatt tccactaaat 240

ccatctttct t 251

<210> 54337

<211> 262

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-050-Q1-K1-G3

<400> 54337

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ttattttttt tattattttg taaatgttaa atttaaaatt tactttttct aacccttaaa 120

ataaattata ataataaaaa tttttacatt aaaaaaaaat actttacaaa ataaaaaaat 180

actccatatt ttaaaaaatt tcaaacactt tttataaatt actttaaaaa atccaatttt 240

aaaaaaaata taaatactat tt 262

<210> 54338
 <211> 222
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-050-Q1-K1-H1

 <400> 54338

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 ttctctctcc tcttagcaca gctgacactg ttcaatttta aacctgtgat cacctctccc 120
 agcatctgca agtgcaactg ttactccatc tgctcttaca ccagctcatt catcttcatg 180
 ttttttaact tttatacctt ctataccatc atttttaata cc 222

<210> 54339
 <211> 209
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-050-Q1-K1-H2

 <400> 54339

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 caactaatta aactaacgc aagggttaaa tctaaaaact taccaaccta cccctattac 120
 agccttacat atcataccat catctccatt ttacatctta tcatctactt ctttttattg 180
 ctatcaaact atatccacta caaatatat 209

<210> 54340
 <211> 242
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-051-Q1-K1-A10

 <400> 54340

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 ttgcatgcgg acttcggccg cctcgagatt naggtntctt aggtcgaaat gcccggcctc 120
 atngcgtgcc gcgccgagtt cggcccgctc aagcccttcg ccggcgctag gatctcgggg 180

tctctccaca tgaccatcca gaccgcegtc ctcacgcaga cctctaccgc gctcggcgcc 240
ga 242

<210> 54341
<211> 326
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-051-Q1-K1-B1

<400> 54341

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atgctgtcat gtactgaaag tncgggatct caagaatata aaagaacttc cagaacaata 120
tattttgaag agatggagga aagatgctcg ttctgttcaa attggggagg aacctaccta 180
tgggtctggc agtgtcatgc gatcaacctc agaagctcga ttcagtatca tgtgtcgggt 240
ggctagcttg attgcttcaa gagctgcaa attcgaggat ttgatttcat atatacgaag 300
ttagtcaaat gcttttcaga aacatc 326

<210> 54342
<211> 255
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-051-Q1-K1-B10

<400> 54342

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tattttctgcc tctgtccctt gcaagttcaa tcgcatctcc atccatgggt aaagagaacc 120
cccacatcaa cattgtggtt attggccatg tcgactctgg caagtcgacc accacaggac 180
accttatcta caagcttgga ggcattgaca agcgtgtgat cgagaagttc gagaaggaag 240
ctgcttaaat taaca 255

<210> 54343
<211> 76
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-051-Q1-K1-B5

<400> 54343

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agcacacca ctcac 76

<210> 54344

<211> 110

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-051-Q1-K1-C1

<400> 54344

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gttgatcata ccatactta tccagatntt ttattcttct ggggtctcat 110

<210> 54345

<211> 282

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-051-Q1-K1-C11

<400> 54345

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tctatctccc gatctcgatg gcgaaccctc ncgtcttttt ttacatgacc gtcngccgcc 120

ccccggcggg ccggatcgtg atggagctgt acgccaacga ggtgcccaag accgcggaga 180

acttccgcgc gctgtgcacg ggcgagaagg gcgtgggcaa gtcttggaag ccgctccact 240

acaagggtc caccttcac cgcgttatcc ccgagttcaa tg 282

<210> 54346

<211> 359

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-051-Q1-K1-C12

<400> 54346

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gtgcattggg actggggaga gcatcaacga ggagggcctc tttccatggt gcaaggggtca 120
caacctcggt caagagaaga aggttcttga ggttcatggt gagaagggaa tgcaacacaa 180
ccagaagatc accttccctg gtgaagctga tgaagcgctt gataccgtca ctggaaacat 240
tgtattcgtc ctccaacaaa aagaccactc caagttcaaa aaaaaagggtg aagatctctt 300
ttattagcac accctttctc tgacctaaac tttatgtggg ttccaaattg ttcttacac 359

<210> 54347

<211> 320

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-051-Q1-K1-C9

<400> 54347

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actagcaacg acctaacaac aattgcttgc atgacattat acgtccttgc cctcctcgcc 120
ctttttgtga gtgcaacaaa tgcgttcatt attccacaat gtcacttgc tccgagtgcc 180
attattccac agttcctccc tccagttact tcaatgggct tcgaacaccc agctgtgcaa 240
gcctataggc tacaacaagc gcttgcgggc agcgtcttag aacaaccaat tgcccaatta 300
caacaacaat ccttagcaca 320

<210> 54348

<211> 340

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-051-Q1-K1-D11

<400> 54348

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ccctatgtgc gtgccgaccg gcggcggcgg cnaggttatg gctatggacc cggacgcggg 120
cgccaaagcc ttcgtggagc actactaccg gacgttcgac accaaccgcg cggcgctggg 180
ggggctgtat caggagacct ccatgctcac cttcgagggc cagaagttcc agggcccatc 240
cgccattgcc ggcaagctcg gatctcttcc cttccaggcc tgcgagcacc agatcgctcac 300

cgtcgactgc caaccgtcgg ggccctcagg aggcattgctc

340

<210> 54349

<211> 194

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-051-Q1-K1-E3

<400> 54349

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ctcatacagc cactcctgca ctgtccgcct tcttctccta ctcccctgcc tgccaccaac 120

tgccaagttt ccaagtgcatt ataccctccc tgcctcacia acaactccac cctttactaa 180

ataccatcat gtcc 194

<210> 54350

<211> 386

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-051-Q1-K1-E9

<400> 54350

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cttcccttgc gtgtttaccg acgccaccgg ccnccgggat attttcaccc aactccntcc 120

ctctctcccg gccagatag atctttcccc cgtcctccct cgccttcgcc ttgcgcggca 180

ggagatttcc accaccaccg ccgaaccgcc ccgacctcc tcccctctcg cgctatggcc 240

cagactgttg tgctcaaagt tggcatgtcc tgggagggct ggggtggagc cttccaagcg 300

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accgtgaaag gcaatgtgac acctga 386

<210> 54351

<211> 331

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-051-Q1-K1-G11

<400> 54351

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attccacggg agctgatatc tatcttcaac cagaaagatc ttgagcttgt gattagtggg 120
cttccagata ttgacttgga cgatttgaaa acaaatacag aatattcttg ctacagcata 180
gcctctccag tcgtccagtg gttctgggaa atcgttcagg gggtcagcaa ggaagacaaa 240
gctcgggttc tccagttcgt cactggcact tcaaaggtag cgttggaagg ttttagtgaa 300
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<210> 54352

<211> 182

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-051-Q1-K1-G12

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ttatttcaca aaagccgacc tctatatacc gccccgttta atttaaactt tcatacaacc 120
ccccccaca tatatacttc aactaaatta aaacaaatac ccaatatattt acctccatca 180
ta 182

<210> 54353

<211> 333

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-051-Q1-K1-H8

<400> 54353

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gcatttgagg ggcattggcag gtgtgtgaat caatgtccgg aaacggaagc cagttgtttc 120
cagggttttc tcgagaaatc ttcacctgcc aagcctgaag acctgaactc ggatgcactg 180
ggttttgatt tgaaatttaa tgtatcctat gttgcctacc attgtttgac aaccatttat 240
ccgaactttt gatctaaaag acagcgggaa tataattgtg cgcgagttaa gcttgaggtc 300

ggtcggttttg acgcttcctc tatgtactat ctt 333

<210> 54354
<211> 327
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-B10

<400> 54354

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aggggaatgct ccgaacgggg ctacaagcat tttggcaaat gaacaccttt taacgaccct 180
ttgggttaaaa taaagggtcat aacacaatag ctgggtccagg cttttaacct aatccacaaa 240
tttgggtggaa aaaaaatagg cctgacaacc ggggttaaccg aaaagcccaa gaaccctttg 300
caaaaccctt cagaaaaaac aattaaa 327

<210> 54355
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-B2

<400> 54355

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gggtgctacg gcggtggcaa ccgtggcggc ggctacggca actccgacgg gaactggagg 120
aactgagcgg tggggcccg cgggccaagt tatectgttc gctaccgtga tgttttaccct 180
agtcagagg gtttatcttc gttcgtgtcg tgtttgttgt tgcccatctg tgtttttgat 240
tgcaaggctg ctctgtgtca gttgttagtg ctgtgttcat cctcggtttc agcagaccca 300
tgcataaac agcatggact gcggatcgat ggatgctgtt acccccgta ggctttattc 360
taagttaatc ttaaggaaaa 380

<210> 54356
<211> 211
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-B4

<400> 54356

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taccattatt aattttttcc agtgcgagat tttttacatt attttttata tccaataatc 120
ttttcaaaac ttcccaactcc tctataacct taataacacc acctatcata ttttttcata 180
tttaatgccca ttgactacta ttctattaga c 211

<210> 54357

<211> 330

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-B6

<400> 54357

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tcacgcggca cgtggtggac gcctgcttgc tttgaatgct cgctccgcgc ttccctacgcc 120
tcgcgcgagg tctccaacgg ctgcgagctc aggccctccg tcacgcgcag accagactga 180
cgtcaaggtc tgctgacccg tcacgcgcac cttctacacc ctgctgatgg tagatcctga 240
tgcatctagc cccagctatc ccaaccttaa atagtacctg cactgacatg tcaactgatat 300
tcctcagact actgtagtat ctaatgggac 330

<210> 54358

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-B9

<400> 54358

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tttccatact cgcggaagcc accaccaccg gcaggggaag cggaagggga gcacctcggg 180
ccaggcaaga tgggtgctgc gcagctgggc gggagcatct accgggccct ggcgagatg 240
agcaacgcca cggatgatga tgagaagggtg ctcaacgact gcctcaacga gatctcgcgc 300

gctctcctac aggccgatgt ccagttcaag atggtccgag acatgcaggc caacatcaag 360
 cgcatcgta accctcaggc gctagccaga agcaccaaca agcgccgtat catgcagcaa 420
 gcttgcttca cggaactctg caacatgtta aatcccgg 458

<210> 54359
 <211> 254
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-052-Q1-K1-C3
 <400> 54359

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 atacatagcc aacatcacct atagcaggcg gagggacgga ggaccgtccg tctcgttcac 180
 tccgcgccgc gcgtggcccg atccagcccg gccctcgcat ggtcgccgct ggcacgtaca 240
 gcgacgacac cagc 254

<210> 54360
 <211> 380
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-052-Q1-K1-D6
 <400> 54360

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 tccgcaggcg gaggtggcca tgctggtgac ggcagcgctg atggcttctt ccgcttcagc 180
 ggcgatcacc tgcttcgagg tgggtgcatc gctcgccgcy tgcataccgt acacgactgt 240
 gaggaccagc gcgctccccg cgtaatgctg catcgccac aagagcctca acagctcggt 300
 gcggaccaga gcagaccgac aggcggagtg ccgttgctc aacagcctta tcaacagctt 360
 caaacagcca caacatggtc 380

<210> 54361
 <211> 322

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-052-Q1-K1-E12
 <400> 54361
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 ttcccaaaac aaccgtttgg accaactcgt gctgggatga gtttgtgagc ctgccagcta 120
 ttgttccacg gggccctggt gcactactag gtttgggtgc tgggacatca gcacatctga 180
 tgctaaagat ttggccttgg ttacaactta ttggctggga gatcgaccct atgataattg 240
 aattgtcaag ggattatattt ggtatgtctg atttagagaa agccacagaa tcaggtgggt 300
 cacttttggg gcgcattggg ga 322

<210> 54362
 <211> 63
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-052-Q1-K1-E2
 <400> 54362
 cccacgcgtc cgaaaaaaaa aaaaaataaa aaaaaaaaaa aaaaaaaaaa aaaaaaggga 60
 ggg 63

<210> 54363
 <211> 241
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-052-Q1-K1-F12
 <400> 54363
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 tgctgtggcc attgaagcgc tcgagcttta tcgcgaaagg gacattcccc gccatgtcaa 120
 gcaaatacgt ccaaagtttc aggacgggat tagggcactt gcagacagtc cgattatcgg 180
 agagatacat atcttgggga tgattatggg gaccgaattc acaaactaca tgttaccgac 240
 t 241

<210> 54364
 <211> 543
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-052-Q1-K1-F5

<400> 54364

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ttcgtcctat gtagttctct cagnttgatg tcgccctggg gatccagtgg aggagtcctc 120
ctctcggggn ntttatgata atactccact actccggcgt ccgcactcca tcgctgggtc 180
agtcctttct ctgctcgtct ttcctcttta ctggcttcgt atgtctnnnt ctcatgaacc 240
ctactctgct ccccatcatt atgcctacgc nncctttctt ctteccactt tctctctcct 300
tctcttttta ccttttccat ttctagtaag catctactcg tgcctccgtc tttctcttcc 360
gatgtcagtt cttctgcttn ntcgtcgtcg ccgttttcaa gtcgttcgcc taaatacctt 420
ctttagcttg catgccactt ncctactgct gctagcaaaa gacctttatt actagtgtca 480
attaagttac gaaaaaaata ataaatataa aaaaggtcgg cccgtctaga ggatccaagc 540
tta 543
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<210> 54365
 <211> 442
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-G3

<400> 54365

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cggttgtgct aaactttctc atctggtctg tactggattt gcagtcaatg ctactgggat 120
ggccaaccaa ctacaactag gaaatagggt gccctgggca aactattcaa ctaaactaat 180
cgcgactcac cactagtcgg ctagttgttg ctcagggtgac tagacttgat ttatgatttg 240
gaaacactag tagctgctta tcttttattt acgctagtta tcctcaaaag accaccaaat 300
gttattatac acattcgtag caatcgata aggttatatt atgctacagt gaacgatgtg 360
ccaaaaaatg gataagcgtg ttcatttaaa ttcttagaga gccattttat gtccttgctt 420
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gatacaacaa catttttgatt ta

442

<210> 54366
<211> 459
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-G4

<400> 54366

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acgcgccgtc gcccgcccca gccggcgagg gagcctccgt ggtcggtccg tcctcctcat 120
cctcccgcaa gccaacaag cgcttcgaga tcaagaagtg gaacgccgtc gcgctctggg 180
catgggatat cgtcgtcgac aactgcgcca tctgccgcaa ccacatcatg gatctatgca 240
tcgagtgccg ggcgaaacaa gctagcgcgga ccagcgagga gtgcactgtc gcttgggggtg 300
tctgtaatca tgcttttcac ttccactgca tcagcaggtg gcttaagact cgccaagtgt 360
gccattaga taacagttag tgggagttcc agaaatatgg ccactagtgc ctgggcaccg 420
tcatgtgatc gtgggggcttt gctgccactc aagtgtttt 459

<210> 54367
<211> 463
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-052-Q1-K1-G9

<400> 54367

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tccccTTTTT cggcgcgcgga gctcgcccga gatgggaaac tcgagatcgg gtgtcgctgt 120
gaatgacgag tgcattgtca agttcggcga gctgcagtcg aagaggctgc accgcttctt 180
aactttcaag atggacgaca agttcaagga gatcgttgtg gaccaggctc gngatcgcgc 240
taccagctac tatgacttca caaacaagcc tcccgagaat gactgccgat acccatcta 300
tgatttcgac tttgtcactg cagaagatgt ccagaagagc cagatcttct atatcccatg 360
gtcccatcc ttcggcaaag tgaagagcaa gatgctttat gcaagcttaa accaaaaatt 420
caagaatggg ctcaatggca ttcaagtgga actgcaagct act 463

<210> 54368
 <211> 245
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-052-Q1-K1-H2

 <400> 54368

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 atgatgaccg aagagagcag ctttaagaaaa gtggcctggg aaaggtcatt atgtttttgt 120
 ccaaattctga tgaggagacc actgcaaata ggaaattggc taaggagctt gttgataaat 180
 ggagtcgacc aatattcaac aagagcacga gatttgaaga catgaggaga tatgatgatg 240
 aaaaaa 245

<210> 54369
 <211> 159
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-052-Q1-K1-H3

 <400> 54369

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 aaataaaaaa aaaaaaagag gggcggttga ctaatcctaa attacatcgc gtgcattcta 120
 aaagatccct cttctctaac gccacctaac ttcaataaa 159

<210> 54370
 <211> 391
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-052-Q1-K1-H4

 <400> 54370

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 caatccttcc ctggggatct gtataccctt gagcaagtac aggtcaacta tgaggttctg 120
 cctgggtggc aaagtgacat ttcttctgtt cgaagatacg atgaacttcc ccaagctgcc 180
 cgcctttatg tggagaggat agaagaactt gttggtgttc ccgtgcacta cattggtgtt 240

ggacctggca gagatgctct catatacaag taaaagcaac tttatttggt ccttggttgg 300
 gcggaaacca ggctgggact cgggagcatt tgcattttct tggcgtggta acttttgata 360
 cggtgaagtc actgactcgt ggagtgatgt t 391

<210> 54371
 <211> 82
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-052-Q1-K1-H9
 <400> 54371

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 ttatgctctg actcaaactc aa 82

<210> 54372
 <211> 363
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-053-Q1-K1-A10
 <400> 54372

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 cgtggtggct acggttatga ttatggctat gccccagag gcgggtacta tgaagagcaa 180
 gacgaatact atgatgagcc cgaggaatat gtcctcccc ctggccgcgg acgtggcaga 240
 gggagaaggg gcggcatgcc ttggcgtggg cgtggaggcc gcgggccacc gcgcggtggc 300
 cgaggagct actactaggc gcgagaaatg cgacgtgccg aatgcgtgtg cttattagtt 360
 atc 363

<210> 54373
 <211> 276
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-053-Q1-K1-A2
 <400> 54373

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 cggtttactc ggagtcgacc ccgatccaga ggaggagata ttcattgccga gtggtgtgcc 120
 gtacctatct acaatttggg cgacgtgccg gcagtagcta gcgatgctga tgtgcgtaca 180
 tgaacaaggt cgaggagcca gacacgatgt gcctatgcat ggagctcagc tcctagctta 240
 tgaactatgg tcagatagag catgcgaga acgcct 276

<210> 54374
 <211> 197
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-053-Q1-K1-A9

<400> 54374
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 accccaccag ggtcgccaag gccatcaatg acaaggcctg cgatgctctc ctgttgaagg 120
 tgaaccaa at cggtctgtg accgagagta tcgaagctgt caggatgtcc aagcgctccg 180
 gatggggagt gatggcg 197

<210> 54375
 <211> 178
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-B12

<400> 54375
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 caccacaac tcgggcaagg ggttcagctc cagcgtgatc acacgaacaa cgtctcgaat 120
 accatcgtcc atcccgccac ttgaaagaac gagcacatca cagattcatg gtatctga 178

<210> 54376
 <211> 273
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-B4

<400> 54376

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aaaataaaaa aaaaaaaaca aaaaaaacag caaaaagaaa attttctaga aaagagatag 120
ggtgcgtcat ctggcacaga ctgcagaaaa tccaaggaat ccgtatccta cacgtacttg 180
catagcgtcc acaagctgac ctctgaatcg gacgtgctcg atgatgagtg cacgctgacc 240
atggagacgc gccacatcga gaacaatgac gtg 273

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<210> 54377
 <211> 343
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-B5

<400> 54377

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tcttgaaacc catgagtatc gaaagcatga agaaatccca agtaggaatg caggcattgc 120
acatgacttc acaggaacat gccgctcctt gagccgtgat aggaatttca ctgaatcggg 180
cccattctct agtatgagaa tgagacctgg tcattcttct ccaggctttc cactccaagc 240
atcacctcag ctatgcactg cagcagttag ggaagcaaaa aaatgggttg aagagaaaag 300
gcagggactg ggcgtaaaac ctgaagacaa tggatcatgc aca 343

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<210> 54378
 <211> 468
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-053-Q1-K1-C12

<400> 54378

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cttgaacagg ttattgtttt ggttgatgct tctgaggctg acgaattttt agaagttgct 180
tcaaagcctt tagaatcatt accatatgat tctcctgggc agacctttgt ggcttttgaa 240
aatccagaaa gtgtcattgc caccggcaag ttctcaaata tcttgaaatt ctttgnataa 300

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gagggatgatc catcncacgg gtgaagctga agatgatggg gtcgaggatg agtaccagct 360
tgaagatctt gaaatcgttt ctgctgatta tatgttgaag gtgggagtat ctaactttcg 420
aaatgcctgg gaaaacatgg attcagagac tgagcgagtt gacgagta 468

<210> 54379
<211> 237
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-053-Q1-K1-C4
<400> 54379

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aatattaaaa aacaggaaaa aaaaaaaaaac ataaggaaga tttacaacgg gagaataggc 120
aaaccacaaa acggggcgac gctctagatg agtcaggcat acgtccgcac tcatgccccca 180
tcataacaag cttatgatcg agatcaatat cagtgccatg cccgttcaga tccaacc 237

<210> 54380
<211> 458
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-053-Q1-K1-C9
<400> 54380

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aaggttcagg aacggaaagc cctcattggg gtcaggaaca ctgcggacac cgcgtatcta 120
cagcatcgag aagagtcttg gagagtacag ggacaagatc ccggcagagg ttgcatctga 180
gatcgaggca gccatcgctg acctccgcca ggagatggcc tcggatgaca tcgagaagat 240
caaggccaag cttgaggctg ccaacaaggc tgtctcgaag attggtcagc acatgtcagg 300
tggtggctct ggcgactcac agtcgggatc tggacctcag ggtggcggtg accaggcgcc 360
ggaggcagag tatgaagagg ttaaaaagtg aggctgcggg aagttgaagc gaaattgtag 420
tgacctgttt agaagtagct actctttttt gggaacac 458

<210> 54381
<211> 341

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-053-Q1-K1-D11

 <400> 54381

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 gccgtagcgg cgggtgcttct cctaccggtg gcagaggccg tgtggctcga gctcccgccg 180
 tcggggacca agtgcgtctc cgaggagatc cagcccaacg tcgtagtgct cgccgactac 240
 gctatcatgt acgagtccca cccagctcg cattccaccg tcgccgtcaa ggttacatca 300
 ccctatggca atactgggca tcataatgga aatgcttcaa c 341

<210> 54382
 <211> 370
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-053-Q1-K1-E11

 <400> 54382

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 gtttttaaga ttgcaacagc tagctagtgg cgcggtgac tttctactgg gaaaagataa 120
 gatacaaaag gttttactct caaggctaac tgaaacagtt atcatgtggc tctccaatga 180
 gcaagagttc tgggatatct ttgacgaccg atctgtccaa ctccagcctt cggggctgca 240
 gcagcttatt ctgatatgc acttcattgt cgagattgct gtgtgtggaa ggtttccata 300
 tagaccagtt cagcaacttg ggtccacaat cataaccaga gcagttgcag ctttctcagc 360
 aaggggtggt 370

<210> 54383
 <211> 469
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-053-Q1-K1-E2

 <400> 54383

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 gggatcaacc ccaaggccaa gccctactac ctctttgatg gctacgccc cttttcgtec 180
 gggcttgctt gtggtctcgc tgggcttgca gctggcatgg ccatcggcac tgtcgggtgat 240
 gctggagtca gggcaaatgc gcaacagcca aagcttttcg ttggcatgat cctcatcctc 300
 attttcgcag aagcgcttgc tctctatggt ctaattgttg gaattatcct ttcgtctcgc 360
 gctggatcaat cccggccgga ttaagtgcac caccattctg tgattaccga accgttaatt 420
 atgctattct gagaggattg gaactctatt ccctggccta gttaatcct 469

<210> 54384

<211> 266

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-E6

<400> 54384

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 aaaaaaaaaa aaaaaaaaaa aaaaccgaaa cttttttaaac cttacatgcc aaaaccaaaa 120
 aaaaaatcca aattaaataa cacccaattc cctcacctta aattttccaac gtaaaaaacct 180
 caaaaaaccc tcccataacc caattaaata cccttcacaca acaacaacct ttttccaaaa 240
 aacctctaac acaccaccca aaaacc 266

<210> 54385

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-F2

<400> 54385

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 ggacagctaa caataactac ctatggacat tttcaagggt aggggtctaa gcctcactca 120
 tatacctcgc acacgacgat gtgatgcaa ctctaagctg aacatcactt acaacaaatc 180
 gtatcggaac ctgcacacca tcaagccttt tctctacaag cctgacacct tccgtctgtc 240

tagacattaa acaacacatc ttgctataac acatacgata ttacatacag gaagaaaata 300
 tgtattcctg ccatgactcc atatgaccat atataagtaa aactgtaca atgtaaatta 360
 aa 362

<210> 54386
 <211> 361
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-F6

<400> 54386

gaattcccgg gtcgaccgac gcgtccgggg aactggctag agaagctgtc aggaaattac 60
 ttgttctgtt aaaaaatggg aactctcgcg atcagcaatt cctacctgtg cctaagagag 120
 ctagaagtat cctggtagct ggaagtcatg ctagcaattt ggggtaccag tgtggtggat 180
 ggtcaatcca atggatgggg gacagtggta atatcacaac tgggacaaca attcttgatg 240
 cgataaagtc taccgttgct gactcgacgt ctgttgtcta ctctgagaac cccgatgaca 300
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<210> 54387
 <211> 256
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-F9

<400> 54387

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 atcatcgtct cttggatccg cttacgcttg cgcgcgccct cacctagaag gccgcacggc 180
 aatggaacga ctttgctacc aagggccatg ttgattccca atggctctca tgttcttgcc 240
 aatattttgg tctctt 256

<210> 54388
 <211> 387
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-H8

<400> 54388

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cgcagcatca ggcgcggccc cctctcgttg tgaccgagat ggcgctgccg aatcacggga 120

ccgttgatta cccagcttc aagctcgtca tcgtcggcga tggtggaact ggtaaaacta 180

catttgtaa gaggcattct actggagagt ttgagaagaa atatgaacca accattgggtg 240

tggaagttca tccgttggat ttcaccacta actgtggtaa gatcaggttc tactgctggg 300

ataccgcacg gcaagagaag tttggtggcc ttaaggatgg atactatatc catggccagt 360

gtgccatcat catgtttgat gtaacct 387

<210> 54389

<211> 102

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-A1

<400> 54389

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ttaaaaaaaaa aaaaaaaaaa aaaaaaagaa aggtttaatt tt 102

<210> 54390

<211> 302

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-A10

<400> 54390

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aaataaaaaa aaaaaaaaaa aaaaaaaag aacgggtttt ataatttaatt aaaaaaaaaa 120

caaacacata aaaaattcgg gctccccctt tatataatcc aaacttactt ccccttactt 180

gcaacttctt tcctttttta tagttttacc aaaattaaat tcacccccct tctttttcca 240

acccttttac tggaaaaccc ctattcttcc ccatcttatt ctctttcaaa caaatcccc 300

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<211> 390
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-054-Q1-K1-A11

<400> 54391

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accatatcgt tctctctgct ctcttcccc gctaaaccca ccatcacctc caccaccata 180
tctacccttt cccaagacc ctcccgctcc acccatgtcc atttctctta ttacgcccgc 240
tgctctctcc tccgcttctg cgcgtcgtct caatatccta cgacttctgc caccctctcg 300
tctctgcctt cttattactt ccacaacctc atttactacc ccaactactt tcgcattttt 360
tacaccactc tgttcgtact atatcattca 390

<210> 54392
<211> 71
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-A12

<400> 54392

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taaattcaat t 71

<210> 54393
<211> 227
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-D2

<400> 54393

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ataaaataaa aaaaaaaaa aaaaaaaaa aaagaaagaa taaaaaaaa aaaaataaaa 120

tacacacaaa tacaaaaaac ttaaaaacca aaaaaaccaa caatactact tttcaattca 180
 ttgaccctta ttcttaattct cttcataccc tatccttcac ttttccc 227

<210> 54394
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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-D5

<400> 54394

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 ctaaaacaca aacaataaaa aaaactcaaa caaaaactta cacaaaaaaaa aaaaaaata 180
 cttaccacc aatcaaccac cccaattttc ttcctaactt attcttctca cactacatca 240
 ttttttatat ctcccccta t 261

<210> 54395
 <211> 434
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-D6

<400> 54395

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 gaccagtggt ctttcgtcct tcttccatca ggacatgggt tcgaacccca cgcgtgcgtc 120
 tagcctgtgc cggtcgccgt ttggccatct atatagacgt gcagcagatt aatttgaaat 180
 agctgagggg ttattttaaa aagatgacgc atgatgaccg ttgaaattgg tgctttaagt 240
 atagtataga attcttggaa ggttttgcta ttctacttat ttgtgatata taaacttgcc 300
 cattttttct tggatatctac tatgaactta actgatgcat ttgataatat aatgatttct 360
 tttgagcctg ttcattagat gtaaattaac acagtatcca tttacaacca attcttttgc 420
 atttttacia ttga 434

<210> 54396
 <211> 199

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-E4

<400> 54396

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 agaaagaaat acacaaacat acaaaaaaaaa aaaaacaaat ataaaaaaac ctaaattggcg 120
 ctccgtttta caggatccaa cattacgtcc ccttgcatat cacgtgttag ccctcatctt 180
 aatccccctta aatcaaatac 199

<210> 54397
 <211> 349
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-F1

<400> 54397

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 ctggtgggag gcacgattgc gctggtgctc acggcgggga cgtggaaggc caagataaag 180
 aagtcgcagg agaagatctg taacaagggg tgggagtgct cggggagcaa gtactgctgc 240
 aacgacacca tcaccgactt cttcaagggtg taccagttcg agaactctt cgccaagcgc 300
 aacacccccg tcgcgcacgc cgtcgggttc tgggactacc aggccttca 349

<210> 54398
 <211> 153
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-F10

<400> 54398

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 atatataaca aaaaaaaaaa ataataaaat agaaaagttt aaatattaat ttacactcc 120
 cccccctct atttttttcc aacacttctt aca 153

<210> 54399
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-F6

<400> 54399

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ggcactggat gagcatctca aagctcatgg cccctacatc aacggggaga acgtatcagg 60
agctgatctt agcctggggc caaagctctt ccacctccag gtcgcactgg agcatttcaa 120
aggctggaag atcccagaaa acctaaccaa cgtccacgcc tacaccaagg ctcttttcag 180
ccgtgaatct tttgtcaaga ctaagccatc cgaggagcac gtgattgcgg gatgggcgcc 240
caaggtgaac gcgtaagcac atcgtgattt ggtgctaact ggtggactcc atccatttat 300
ctgatcagtc gttgtcagtg gtgtgtgtag gtgtcacatc tgtagcctag acacatgatt 360
cagttggaat aaatgcagtg tcgtgtaaaa aaaaaaata aactaa 406
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<210> 54400
<211> 354
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-G4

<400> 54400

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tgtctccatg ctacgaagcc ggcggctgca tcgggaaacc caagaagtca ccgccgccgc 120
cgagaaggcc atacctctcg tcctattccg aggaccacca gaactgccgc ttgatctgta 180
gctcgaaggg tttcaaggac ggtggctggt gtgacgaaag cgtcgagcac aaagtgtgct 240
gctgctccca ttagaaatat aatatcgtat gttatgttga tgcatatata tgcacatcc 300
atctacctgt gtggtgcaaa aattctgaat aaaatctacc tgtgtggtgc aaaa 354
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<210> 54401
<211> 345
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-G5

<400> 54401

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ggacgtgac tcgtgcctcg ccgcgcttgt cgaggcactg gagaaggcta aggaggacgc 120
gctggcgaag aaggccaagg ggaaggagga ggccggctcc gcctatgagc tcgactacga 180
ggagtagctg gtggctgctg ttgacttctt gttagttgct agtgctacat atgtatggag 240
cccctgatct aggtgctggt ctcatctcat gagcgaagaa taatgctaac tagactacga 300
tttgattatt actttatggt gtcagatcaa aaactaaaag aacct 345

<210> 54402
<211> 479
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-H12

<400> 54402

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agggtgatg gcagtttctt tcgcaaact caactccgag gcagggctta aaaagcttga 180
tgagtacctt gtcactcgca tctacattac tggctaccaa gcttgcaagg atgacttggc 240
tgtctacact tctgtttacg ctgctccctc gtccaagtat atcaacgtag ctaggtggtt 300
taaccacatt gatgccctcg tgaggctgat cggaattact gcagagggcc aagggtgtaa 360
cgttggatcc tcagcagttt cttcagcccc aacttcagat gttgctgaag cacatgcccc 420
agttgctgac gaagacgacg acgatgatgt tgaccttttt ggtgaggata ccgaagatg 479

<210> 54403
<211> 325
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-A1

<400> 54403

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cgctccgat gccgccgact cctccgctcc tcgagccgcg cgactacctc ggccgccggc 180

ccacctagtc gtgctgctcg tctgtctgct cctactgccg ctagggcaca ttgccccacc 240
 tcgcgctgcy gatcggtgctt ccggtgtccg acgactcccc cggtcgcggc gcggacactg 300
 aacacgcccc cgccccacgtc tactc 325

<210> 54404
 <211> 295
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-055-Q1-K1-A6
 <400> 54404

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 aataaaaaaaaa aaaaaaaaaa aaaacaaagg aacgcataat ttcaaaaact aacataacaa 120
 acattcaaaa aaaatatata atctacgtgc ctctctttac ttcccttcct tacttactcc 180
 ttcttccaca ttaatactcc tactatcctt ccacttactt tctttccact gcctctcctt 240
 ttaccccggt tttccctgta acaaccttgc ctttaccac ctaactttcc ttcct 295

<210> 54405
 <211> 222
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-055-Q1-K1-A8
 <400> 54405

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 gaaaaaaaaa aaaaaaaaaa agagaagaat tatataaaaa aaaaaataaa aaaaaaaaaat 120
 aaaaaaata aataaataaa aaaatatcaa ttaataatat atccaaaaaa ctaaaatctc 180
 atacattgct cacatttttt ataactgtaa ttcttataaa aa 222

<210> 54406
 <211> 448
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-055-Q1-K1-B1
 <400> 54406

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 tgacattgca cgatctcctt ttgttgattt tcaccatcaa gaaagatgca ggcaagtgaa 180
 gatggcaaag gggccatgca gccttcttga ttttgttcta atctcaaagg cagttgataa 240
 ctcttccaag cctactccag acttcgaact actttctcat cacacatgtc attgcaatgc 300
 tctaagccag aaccctatat ggtggcttat ggaacggcct cggacaatta gtcattgattt 360
 ctcaaagtct tattgtgagg ctaacctgca attggtcatt cacaattcaa aagctcataa 420
 gattttttgtg agagtgggtca cttttgat 448

<210> 54407

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-B3

<400> 54407

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 catcactgag atgatgcggg atgcttttgcg ccagaatgct actgacactg caaccatttt 180
 atctaccgaa gtcaccatg acaacatgca ctcaacacac cagttcacag gttgaatcca 240
 tagtacgcat cagcttttatg actccctaga ttactagaa tttaaaccat taaatgatga 300
 gagaattggc attatacaat aaacttttgg aaaacgtggt gacactggag tcgtattatt 360
 aatcaacgg 369

<210> 54408

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-C11

<400> 54408

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ctctggcgac tcacagtcgg gatctggacc tcaggggtggc ggtgaccagg cgccggagggc 180
agagtatgaa gaggttaaaa agtgaggctg cgggaagttg aggcgaaatt gtagtgacct 240
gtttagaagt agctactctt ttttgggaac acagatagtc agatgagatg taaaacctgt 300
gttgtaataa tcgttggatt tgccccact tagtttctt ctgcggcgat ggaggtaaca 360
cgacattgtc attgcttttg ttgcaaaa 388

<210> 54409
<211> 205
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-D11

<400> 54409

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agcttaaaaa cccctccctt caaacctta atttttttat tgtgacct aacttaaatt 120
cacacgcccg actttttaca acgtccgtga ctaaaaaaac ccatttttta accaacttat 180
atctttttaa aaaaataccc ctta 205

<210> 54410
<211> 371
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-D4

<400> 54410

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aggatgcaa gttcaagctc tgcaagggtga ggggctggca gtttgccag aagggcatcc 120
cctacctgaa cactacgac tgccgcacca tccgctaccc cgaccgctc atcaaggcca 180
acgacaccat caagatcgat ctggagacca acaagatcat ggacttcac aagtttgacg 240
tcggcaacgt ggtcatggtg accggccgga ggaacaccgg gcgtgtaggt gtgatcaaga 300
acagggagaa gcacaagggc ggcttcgata ccattcacgt cgaggactcc atgggccacc 360
aagttcgac c 371

<210> 54411
<211> 297
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-D5

<400> 54411

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tgcttaacat gtggcatctc cgctgcaacc gagtacctgg actgaaatgt tcatgttatc 180
gtcaactaac aactgacctg gtttacttca ggccctactg tataattaca ggaattgggt 240
gggccatctt tgctgatttc cacagcattc ttatggtaaa attattactg ggagttt 297

<210> 54412
<211> 113
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-F11

<400> 54412

attgggtggg cccctctttta gatttcttat gagttatagt tcaataataa agtttgttgt 60
gggatgtttg tggcttccca gaaataagaa agtacatttc tagattctta aaa 113

<210> 54413
<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-F8

<400> 54413

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ttggctcagg gatttgtttg gcttccaaat ggtttgttgg tcctaaaata gtcagaatca 180
catgacatct gtgctataga tatggacctc agtgggtttc tccacattag gaaagctgga 240
agagccggtt tgaactcaat ttttttgcta acaagtgttg tatggtgaaa cagagttttg 300
tgtgtatgta ccaacaacta aaatgtaaac acgacattat catagttgag tccaggaata 360

ataatctcta tatctaattg caaaa

385

<210> 54414

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-F9

<400> 54414

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tgcatccaa accaggtcct ttgagcaatg tgaggaactg ttgttacaga gtacaatata 120

tccaaagcac actatccttg aattacagag ctcaaaccac ctgaacttgt tattgtggac 180

ttttttcatc tcatcgctgg ttctccctcc tgcgtgcgta ggggtcctg tcattgtacc 240

taggcctgtc tgcagccctc tgtggcacgg gctcgacctc tctctgcctc tcaagaggcc 300

tctgaacaat ctacccgttg acaagcagtt cagctccgta gtccttgtac tcaaggtcaa 360

catacgaatc cggtagcaca aagagaacac caaggagccc ctcgagcttg ttagatgtct 420

cctcatcgat ctc 433

<210> 54415

<211> 314

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-G6

<400> 54415

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cacgacgaga tagcagagta ctatctacaa ggggggggatg agatcacaca accgacaccg 120

cgacatggta tagaaacctt tcctgcacca aggaaaccag atccgaccaa aatgcgacga 180

cgacacgaca gcaccgaaca aatctcacta ctactagtac tactggatag cactccaata 240

aatagatcta ggcggcagct gcggcagcgg gggaagtact gctaggtagc ctgcaagcac 300

gaagcccat cggc 314

<210> 54416

<211> 169

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-H5

<400> 54416

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 aaaaaacaaa ccattaaact actatgttta gttgttcaat ttaactttat gacaaacccc 120
 ccaatcaata cttacacatt cctttaaaac aatcccttcc tacaatata 169

<210> 54417
 <211> 74
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-H6

<400> 54417

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 acctaaatta aatt 74

<210> 54418
 <211> 368
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-H9

<400> 54418

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 gcccgcggtt tacaaccttc ttacctggaa aacccctgcc ttcccaaatt taattegctt 180
 tcaacaaaat ccccttttcg ccacttgctt tattacaaa aaggccccac ccatccgcct 240
 ttccaaccat ttccccaccc taattgcaa ttggaacccc ctttttaccg cccatttaac 300
 cccgcgggtt ttgttggtta cccccagggt aacggttcaa tttgcaagcc ccttacggcc 360
 cgttccttt 368

<210> 54419
 <211> 400

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-056-Q1-K1-A8

<400> 54419

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 atgcgaggag acaaccatgc atgatgtgaa caacatcgag gaagagatgc gcaggaagca 180
 ggctcatgct gctcaggagg cgtacgagga ggacgacgag atgcctggcg gagcccaaag 240
 agtgcagtgc gctcaacagt aagcagacta ccaaaatggg attcaaggca ctttggttgc 300
 tcttcaatta tgcgagtgcg cctgtggact gtatggttct atggttttgc tgcgctgag 360
 ctacaaagta ggaagctgat gcgcccctgg ctctgcaagc 400

<210> 54420
 <211> 428
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-056-Q1-K1-B9

<400> 54420

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 ccccggtgtc gctgttccag aagcccatcg tgaaggtgaa gctcgacgac ctgatggccg 180
 ccacgcagga cttcagcagc agccacatcg tggtcgcggg gagctcgcgg gcggggacgg 240
 cctaccgcgc cgtgctacgg gacgggtccg cgctgacggc caagcgctg cactcgtgcc 300
 cgctctcgga gaaggcgttc agggcggaga tgtgtcggat cgggcagctg cggcatccca 360
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 atatggag 428

<210> 54421
 <211> 337
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-056-Q1-K1-C11

<400> 54421

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tttcaaaaaa aaaaaaaaaa aaaaaagaaa gatataaaaa aaaaaaaaaa caaaacaaaa 120

caaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaggcccc 180

ccttttaaaa aaaccaaact tacctacccc tacattcaaa cttaaaacct tttaaaaagt 240

gcacccaaaa tcaaatcaac tgcccttctt ttaaaaacct cctaactgga aaaacctctc 300

cttacccaaa ctaaatacct ttaaataaaa tcccctt 337

<210> 54422

<211> 293

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-056-Q1-K1-C12

<400> 54422

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acctctccca aatctgtttt cactgcttt ggctgtaga acttgagag tgctctcct 120

cctatgaaga aggactacaa gctggctaatt cttctctgct gggaggagga agcggatgcc 180

atggaggaga aggcgggagt gcttgatgag taagacgggc ttctggggtc gatttgcttc 240

tgagttgttt attttatatc gtcgcaattt cgtggttgct gtttgggtat tct 293

<210> 54423

<211> 282

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-056-Q1-K1-C2

<400> 54423

aattcccggc tggacgcacg catgcggccg gatgcactgt aaagaggtct atactttact 60

atgcctgtcc aggttgctct agctttggac gcatgtaaac agcgggggggt cttgctggcg 120

ctgcctatga tgatggaaat tggcttagag agaggattca gaactgcatt gactgacttt 180

gtacttatgc agctccagtt agcatctgtg ttcttcacat tctctcttgg gacaaaaact 240

cactactacg gaaccacact gctacatgta ggagctgaat at 282

<210> 54424
 <211> 384
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-056-Q1-K1-C4

 <400> 54424

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 tgctctcctt gctttcacac ttgggggtgag gcagatgatt tgctgctgca acaagatgga 120
 tgctactaca cccaagtatt caaaggcccg ttatgatgag attgtgaagg aagtctcttc 180
 ctacctgaag aaggttggat acaaccctga taagatccac ttcgttccaa tctctggttt 240
 tgaagtgac aacatgattg agaggtccac caaccttgac tgggtacaagg gcccaaccct 300
 acttgaggct ctggacttga tcaatgagcc aaagaggcct tcagacaagc ccctgcgtct 360
 ccccttcag gatgtgtaca agat 384

<210> 54425
 <211> 459
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-056-Q1-K1-C9

 <400> 54425

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 aaatcccttc tgcgggatca catatcccta gagacttgag taaggctcgc actgatatcc 120
 atatattctg tacttaccac cacatcgac tattgttttg cttgctacta gcgcacatgt 180
 aaaaaatatt aaataaacia agaagcttgc ctgaactatt tacatacact gtaaatacag 240
 tttttagtgg tgtattttta ttacttacac aaaccagtat tcatctcaaa agccatgaac 300
 agctattctt atcccttcca tttcattgaa aaatgaagge tttcgtaggg atgaagaaac 360
 gcttcaacct tcaatatacc tgaacaacct gccagacaag attccagagg gtactcgtgt 420
 gctaagttgt gacccaatgc tggccactgg tgggacaat 459

<210> 54426

<211> 418
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-056-Q1-K1-D1

 <400> 54426

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 cctcgaggcc tttgccggcg aagagcgccc aggcggccac caggatgaag tttgttgctg 120
 cctacctgct tgctgtctc gctgggaact ccagcccctc tgccgaggac ttgacagcca 180
 ttctggagtc agttggctgt gaagttgaca atgaaaagat ggaactcctt ctgtcccaac 240
 tgagcggtaa ggacattacc gagctcattg ctgctggcag ggagaagttt gcttcagtcc 300
 catgtggcgg tggcggtgtg gctgttgctg cagctgcccc tgctgctggc ggcgctcctg 360
 cagctgaggc gaagaaagaa gagaagggtg aggagaagga agaaagtgat gacgacat 418

<210> 54427
 <211> 294
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-056-Q1-K1-D5

 <400> 54427

 tccctggtcg acccaactcat cctcctgcgt ctctctctcg ctaccctct ctctcttctc 60
 ctttcccgaac aaacaactcc cagtcgcca cctgnatgaa gtttctgct ccctacctcc 120
 ttgctctcct ctctggaaac tccagcccct ctcccatga cttgacagcc attctcaagt 180
 cagttcgctg tcaagttcac aattaaaaca tgcaactcct tctgtcccaa cttatcagta 240
 atcacattac ctaactcatt gcttctggca atgaaaactt tgcttcagtc ccat 294

<210> 54428
 <211> 476
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-056-Q1-K1-D9

 <400> 54428

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tccagatcgt ccggcggnga tgggggctgc ggtctttcca gcgctgctgc tggccgtagc 120
ggcggtgctt ctccaccgg tggcagaggc cgtgtggctc gagctcccgc cgtcggggac 180
caagtgcgtc tccgaggaga tccagcccaa cgtcgtagtg ctgcgcgact acgctatcat 240
gtacgagtcc caccacagct cgcacccac cgtcgcgctc aaggttacat caccctatgg 300
caatactgtg catcataatg aaaatgctac aacggggccag tttgcattca ccacttcaga 360
agctggaaac taccttgcac gtttctggat agacagcgtg gagaaaggat caggaacatc 420
tctaaatctt gattggaaga tagggattgc tgcaaaagac tgggatacta ttggta 476

<210> 54429
<211> 384
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3079-056-Q1-K1-E1
<400> 54429

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gggtggggag ttccgtcttt ggggctcgtt aangctggca cattcatttg tgagttcagc 120
gggattatcc ttactcacca gcagtcagag gttgtggcag caaacggcga ttgcttggtg 180
cgtccaagta gggttcctcc aagggtggtg gattgggggtg atatatctga tgtctaccct 240
gattatgtgg cgccagacca tccttctatt cctgagttaa aatttgcaat tgatgtgtca 300
agggcaagga atgtggcatg ctatttcagc cacagttgca gtccaaacgt gtttgtccaa 360
gttgtgcctg ttgatcatta caat 384

<210> 54430
<211> 380
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-056-Q1-K1-E9
<400> 54430

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aagattgcaa cagctagcta gtggcgctgt tgacgttcta ctgggaaaag ataagataca 120

aaagggtttta ctctcaaggc taactgaaac agttatcatg tggctctcca atgagcaaga 180
gttctgggat atctttgacg accgatctgt ccaactccag ccttcggggc tgcagcagct 240
tattcttgat atgcacttca ttgtcgagat tgctgtgtgt ggaaggggtc catatagacc 300
agttcagcag cttgtgtcca caatcataac cagagcaggt gcagctttct cagcaagggg 360
tgttgatcca caaaagtgtc 380

<210> 54431
<211> 318
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-056-Q1-K1-G3

<400> 54431
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atctgcaaag caacatctgg aacgcngggc tttgatgagg tcgatgaatt catttatcaa 120
ctatgtgatg tcacacgata tggcgcctta acaaggcctg atttggaatc agacttggcg 180
tctgttcatg aaactgtatn tgcaataaag aatgaagctg tcgaagtttg caacaataga 240
ccattcgaag aatcctcaac tctgcagtgt tttcaaagga tggtgaatgg gtctcatgga 300
agtctatgtc attatcag 318

<210> 54432
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-056-Q1-K1-G6

<400> 54432
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acacaatccg ccgtgcgcac gcggtgcgtt ccattaccgc cgtgcagatg gagtggtcgc 120
tctgggtccc agacatcgag cccgagatcg tgccactctg cagagaattg gggattggaa 180
ttgtggctta cagtccaatt ggccgtggat tttttggtgg aagaggagtg atacagcaag 240
tttcttctga atctagtctg caaaggcatc caagatttac aacagaaagc ttggagaaga 300

acaagcagat ttacctgaaa atagaagatt tggcgaagaa gtaccagtgc agcccagctc 360
agctagctct agcctggggt ctgctcaag gggatgatgt ggttcctata 410

<210> 54433
<211> 356
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-056-Q1-K1-H1

<400> 54433

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cataacatca gccgcgaaca cactgcttg tttctcgaaa tatgtgctga ctacatcact 120
gcactcgact attaccgcct gctctaaact cgacatcgtc cgcgatgacc gaactggtaa 180
aactacactt tgtaacgata atctcactgc atagcttgag acgacacatg ctccaaccat 240
tgatgcggaa catcatccta tggatatcac cactaactgt cctaacatca cgatctacta 300
ctgtcataca cgaacgtcaa gatacgccag atgacctcac gcatggatac tatatc 356

<210> 54434
<211> 428
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-056-Q1-K1-H3

<400> 54434

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cttccccgac atcgaccttg actgcttgg cgctccttc tgcggcgacc ccgcgcctg 120
ctccggcctc atcatcccg cccgcctcc gccggcgccg gcgacggcgc acgatgcgga 180
ggcgggggtcg ccggagtcgg tgacctcccg gacgaacctg ctgggggagg tggcgctctc 240
ggagatcgag aggtctctga tgcaggagg ggaggcgga ctgggcgng aggtcgatgg 300
gatcagcgtg gaccagttct tcgacgcgt gtacgacggc gaggaggcga aaggtgagcg 360
ggaggcggtg gcaagcgcg atgtggactc cggcaggac gatgtgctgg aagtcgtgac 420
gccagagg 428

<210> 54435
 <211> 292
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-058-Q1-K1-A1

 <400> 54435

 aattcccggg tcgaccgacg cgtccgcgga cgcgtgggca ctgaccccggt tactagaggg 60
 ctttgtgatt ctgaagaaga acccggggtg cggggaggag tgaagacca tatagcatat 120
 tgggtgtttcc gaggcccgtc cagataggca gcctcgaatt tgcgcggcct tggatatcta 180
 tcttctttct tgctcagcag gagcgccatc ctggccctct ccttcctggg tccgtgtcca 240
 tgtttgattc ttatcttacc ggagctgtgg ctaactgaaa gagctgtctt tg 292

<210> 54436
 <211> 257
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-058-Q1-K1-A3

 <400> 54436

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 gcagtcctatc tattaatttg cggcagggtta tctcagagct tgctgctcct acaaaggatg 120
 cagaatTTTT aatttttagaa ngcatgggtgc gatcacttgc ataccaacct caatgcccggt 180
 tttaagtgtg atgctctaaa gcttgctatg gtcaagaatc agcgatttgc agaaaaactc 240
 ttcaatggga gtctata 257

<210> 54437
 <211> 296
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-058-Q1-K1-B1

 <400> 54437

 acgcgtccgt agccaacaca cacacaaata ctctccattc cattccatct caaaggatag 60
 aataatgggg ggtctctcca ccaagctttt cgtgggtcctc ctctgtctcg tttgttacac 120

cgggacgcaa ggcgggcccgg tgactatggt gtcggcgagg aagtgcgagt ctcagagctt 180
 ccgcttcaag ggaccttgct cgagggacgc caactgcgca aacgtctgcc tgaccgaatg 240
 ttccaccggc ggcgtgtgca agggcctacg ccaccgctgc ttctgcacca aggact 296

<210> 54438
 <211> 238
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-058-Q1-K1-B2

<400> 54438

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 cgtctctctc ttctctctga ctgtctctct cntagccgcg tccacctcgc aacaacaagc 120
 aagcgccacc aaatggcgcc tctaagagac cgcggaactt cttccccggc ggggtccaac 180
 aacctggtgg ggtcgttccg cgagaagctt atccactttg tccccacct ggcccggc 238

<210> 54439
 <211> 432
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-058-Q1-K1-B5

<400> 54439

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 ggcggcagca gtgttggtatg ctgcggcggg ggtggttgaa gcggaggagg atctggtggt 120
 ggcggctgca gcggcagtgg gactagcggg cgttgccccg tggacgcgct gaagctgggc 180
 gtgtgcgcca acttgctgaa cgggctgac aacacgaccc tggggacgcc gcccatgacg 240
 ccgtgctgca cgctgatcca ggggctggcg gacctggagg cggcggtgtg cctctgcacc 300
 gtctcaggg ccaacgtcct gggcattaac ctcaacctgc ccatcaacct cagcctcttc 360
 gtcaactact gcggcaggcg cgtcccatct ggctttcaga gcttctgata tatatggtgg 420
 tagattatat at 432

<210> 54440
 <211> 314

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-058-Q1-K1-B6

 <400> 54440

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 cttcgccggc gaagagcact tcaacggggg cgcccacccc gtggcttggt gctttgtggc 120
 ccgccaaacc catcacccca accctcactc gagctacttg gttaacttcg cgtctttcga 180
 tctgggctga atgcgtcttt cgatctggac ctaactgacc attaccgct cctttctggg 240
 tatattctca ccttacctgg agaaaaccag aggggatttc aagaaggcca ggggcaacaa 300
 ccaaaccaaa cttc 314

<210> 54441
 <211> 380
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-058-Q1-K1-B7

 <400> 54441

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 gtgtctctcc aacaagcttt tccgcttcct cctcctgctc gttcgatata cacgaacgca 120
 atgcagaccg ctgactatct tctccgccag gaagtcccaa tctcatagct tccacttcaa 180
 gggaccttac tcgatggacg ccaactgctc aaacgtctgc ctgaccgaat gtttcaccgt 240
 ctgtatatgc aaagccctac gccaccgcta cttctgcacc atggactgct aatactgcct 300
 aatctctcca tccctcagct cgtgtcctgc gtgtgcatag ccgcaccata tcagtaaaac 360
 atgcatgcat gcattaccta 380

<210> 54442
 <211> 198
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-058-Q1-K1-C11

 <400> 54442

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 ctggtgcccg gctccccctca ccaagctnnc tggaaggggg ttccgggaac ggaggggttc 120
 ccctcaaaac gcaatttccg tcttttttaa ggcccccggc ccgaaagtga caaaggggtt 180
 tcaccccggtg ggcacggg 198

<210> 54443
 <211> 162
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-058-Q1-K1-C9
 <400> 54443

gtcgaccgca cgcgtccgca tggaaatgga ttctctcaca tccattggga ttgatctttt 60
 tccaanaaaa cgtaggtgat cttaaataaa tgctgcattt cctcttaaaa catctgtagg 120
 tcttggaggt tatctacgtg tcatgggatc tccaacagat tt 162

<210> 54444
 <211> 77
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-058-Q1-K1-D10
 <400> 54444

taccggtcag gaattccggg atcgaccac tcttctatt gttactagaa attatgtttc 60
 aaaaaatttt tttttca 77

<210> 54445
 <211> 131
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-058-Q1-K1-E10
 <400> 54445

ttccgggtc gacccaagcc ttccggtggt tcnntttat ttgcccctcc accagggtta 60
 accaattttt ggaaccacta accggggggc cgaactttta ccaattcacc attttcccaa 120

gaggatcata c

131

<210> 54446

<211> 62

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-058-Q1-K1-E12

<400> 54446

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aa 62

<210> 54447

<211> 82

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-058-Q1-K1-F8

<400> 54447

attcccgngt gagagcgacg cgtccggaat gccctcatct ttgatcttgg aggtggttcc 60

tttgatgtct ccctcctcac ca 82

<210> 54448

<211> 82

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-058-Q1-K1-F9

<400> 54448

cggaattccc ggctcgaccg cagcggtccg aaaggnnnnn nnttaccaaa ctaactaatt 60

ctttagaaaa aaaacaacaa aa 82

<210> 54449

<211> 74

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-058-Q1-K1-G12

<400> 54449
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 aaaaaacttt tttt 74

<210> 54450
 <211> 67
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-058-Q1-K1-G2

<400> 54450
 cacctaaaat caattctctt gccgtcgata tacaaccatt tgagtgaggg atcttttacg 60
 tgtcccg 67

<210> 54451
 <211> 220
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-058-Q1-K1-G3

<400> 54451
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 caaccatcat catgaattca tgatactgga tgtacatcat gatactgcgg agacagacag 120
 cgagagatga ggctagctag atgctgtttc accaaaatat tatgtaacac ccaaattctcc 180
 cattttaaga aataaataag attttcgaaa ggcaaatggg 220

<210> 54452
 <211> 253
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-058-Q1-K1-G5

<400> 54452
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 tactcttccg gagccctaaa antcgggggg gggcgccctt aacagggggc aaaagaaatt 120

taagggggcc atttgcaaaa ccacctcaaa gtcttgccag ggggcttcgg gattttcttca 180
cccctaccac tttagttgaa tcacaccccc aaactacttc aatggagtct tcacagggcc 240
tacttagttt cca 253

<210> 54453
<211> 458
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-058-Q1-K1-G6

<400> 54453

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ccttaagga gcgctgaaaa gggttactgg gggtaatgca caacaggggg cgaggaaga 120
tttggtggag tcacgaatgg cacatacatt gggggtttct gctgatcaaa ggtcaagatt 180
gctcatggca accgagagac agaaccacaa aactgatagg ctacagagata gccatagaac 240
tatgctggag actgaagaac ttggtgtctc tatcctgcat gacctgagtc aacagcgcca 300
gtctctcttg catgctcatg atgtattgga cgaggtggat aacaacgtcg gcaagagcag 360
gaggaccatt ggaggcatga tgaggagaat ggatagaaac aagtggatca tcggtctcat 420
catagcagtt cttgtcttgg ctatcctcgt gattctgt 458

<210> 54454
<211> 397
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-058-Q1-K1-H7

<400> 54454

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tatcatctcg actgctgaaa aaacacaaca gggcggtttg gaggggaggg tggaggacct 120
tcttctgnnc cccaacaagt tctcggagcg ccagcccatc agcacagcgg cgcagggcac 180
ggacgacaag gactacaagg agcccccgcc ggcgcgcgtc ttatagcctc ccgagcccaa 240
gccctggtcc ttctaccgcg ccggcatcgc cgagttcgtc gccaccttct tcttattata 300
catctccatc ctacccgnca tgggcgtctc caagtccacc tccaagtgcg ccaccgtcgg 360

catccagggc atcgcttggg ccttcngcgg catgatc

397

<210> 54455

<211> 352

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-058-Q1-K1-H8

<400> 54455

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aggatcccat catcttcaact taccaaatat tatacccatg atcaaaacca tggccgaatc 180

taacactaat gctgacaaaa tagagactct tatcggtaat aatcataacc tgcctgagtt 240

acctgatcat gaatctatct gatacttctc ttgcttgtct ccaaccaaac atccttcagc 300

aaaccaaggt ggtgcttata cccactgcgt tgattttcaa cctctgcatt aa 352

<210> 54456

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-A11

<400> 54456

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gcgccggcgc tccatcttcc gctggctgcc ttagtcgcgc tcggcacgcg ggtgacggcg 120

gcagtggcgg cactcaggat cgggctctca gcgacggcat cagcggtttc cctccccgt 180

tctctccagt cgcttcgcgc cctcgcttcc ggtcctacgc acaccatccg gtgaccttcc 240

atataggggtg tgagactacc aaaactcgaa aatgaacaag ggaaagattt ttaagctagc 300

caaaggattc agaggaaggg cgaaaaattg cataaggata gcaagagaga ggggtggagaa 360

tgcgcttgca tattcatatt aggatcgacg caacaagaag agagacatgc ggtctctttg 420

gattgagcgc atcaatgctg gtacac 446

<210> 54457

<211> 141
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-059-Q1-K1-A4

 <400> 54457

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 atcgtagttc tcttcatcat cctgaagggc gcagcgcgct tgatacctgt tgacatgcat 120
 catctgacgg ccttactggc c 141

<210> 54458
 <211> 63
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-059-Q1-K1-A5

 <400> 54458

 cttcatatct atcaacctta tttatctatc taatcctaac ttttatctat actattcaat 60
 cac 63

<210> 54459
 <211> 409
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-059-Q1-K1-A7

 <400> 54459

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 tgctcgctct ccatectcgg cctcctcttc cgccacctcc acatctcggg gcctgtggat 180
 cctcttgaat ggcagatctc tcaggagatg gcaaatagca tagttgcac tttagccaat 240
 acagtaggag ctgctgagtc tgtattaagg gtggctgcaa ctggacatga caagaagctg 300
 tttttcaagg tggtttctac attgtatttt ctagcagctt tgggaagggt ggtgtcaagc 360
 gctgcccgtg cgtatgctgc cctatgcac ttctgcctct acatgtttg 409

<210> 54460

<211> 154
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-059-Q1-K1-B6

 <400> 54460

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 ctttattact tttttaatta ttctatcgtc tagttatata caaattaatt actcaaacta 120
 attaaccctt tccttcttaa tcattttcct cttt 154

<210> 54461
 <211> 282
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-059-Q1-K1-B7

 <400> 54461

 tccggaattc ccgggtcgac cgacgcgtcc ggttttcgaa atattctttt tagagggggg 60
 aggcattggtg cagtaaaatg aaatagagag agattggagc aattctttgt tatcttagca 120
 acaccttttc ttcttccgag agcactatgt acaagggtgac attataaaag attaagatag 180
 tgaaggcctt attttcgcga ggctaagtga cattcatctt gcaagtgttg caactttttt 240
 gaagtttggt taagtaaaaa aagacatgaa gtttggttcg ac 282

<210> 54462
 <211> 453
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-059-Q1-K1-B9

 <400> 54462

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 ttctgtaatc catcgagct ggacatgcgt tgtagcgtag atttgatcgt tgagatgacc 120
 ggcggcggcg tggactacag cttcgagtgc atctgcgtgc cgtcgggtgat gaccgacgcc 180
 ttcagatgca ccaagatggg gaagggaag acgatcgtgc tgggtgctgga gatggacagc 240
 gacgaggtgt gctgcccgtc gctggagctg ctgctcggga ggtgcgtcat ggggtcgtc 300

ttctgcggtc tgaatcccaa gaccacata cccgtcctcg ccaagaaatg catgggtcaaa 360
gagctgcagc tggactcgct ggtcacgcat gagcttggac tgcattgacat caacatggcc 420
ttcgacctgc ttctgcaatg gaaaagtctg cac 453

<210> 54463
<211> 282
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-C3

<400> 54463

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gtcctctcat cccatcccat ctcatctccg acaagogaag cagagcactg gcatgagcat 120
ggaccgcatg gcggggcggt cctgtctcct gtcctctcgt ctggctctcc tggccgccc 180
ggcgtctcgc gactcgtggc tgtacgagaa ggtaacgacg gaaggcaacg tgcgcgcgga 240
ctacaacgcg caagggcagc aagtgcgctc tctgatcctg ac 282

<210> 54464
<211> 267
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-C8

<400> 54464

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cgacatatcc acacgaatcc tctgattcat gtcaggggtg tggcattgat cagacgcctg 120
ccatggcgga tcagttcgtg gattcggcga acaatgtgat cattgaggag gtgaacaagg 180
gcctgaaccc aggaatgggt gttctgcttg tggttgcaag cttcctgctg ctcttctttg 240
tggggaacta tgcgatgtat gtgtatg 267

<210> 54465
<211> 168
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-059-Q1-K1-E1

<400> 54465
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 ttggcttctc ctccccctcc gggtcgggtg ggggtgcgtg aggttctccg gggttcgggt 120
 tcgtgggtga gcggatcgag atggcggcgt ccgatgttga gtaccgct 168

<210> 54466
 <211> 352
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-059-Q1-K1-E7

<400> 54466
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 accagagcac tagagcagag caacaacgcg acaagagcag agtgagatcg tcgtcagcga 120
 gccagcaga tacgagagag aggatggcgg acatcgcgtt gctgggtggcg gagcagttcg 180
 agaagacggc aaggcgaggc gccccggcg gggacagcgg cagcagcagc gggagcggcg 240
 gcgagacaag gaacttcggg gccgtggcca aggtgtggag ctggtgggtg gagtccgcct 300
 tcgncgccgc gtccggggtc agattcaccg tcgcggtgca gctgggagcc ca 352

<210> 54467
 <211> 89
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-F1

<400> 54467
 accggtccgg attcccgggt cgacgcacgc gtccgcccac gcgtccggca ggagcaggag 60
 gggttcgtca tcgcgtggtg gccgcgccg 89

<210> 54468
 <211> 274
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-F2

<400> 54468

cgggtccggaa ttccccgggct gaaactggcg tggatatgct gtacgtcgtg tctgtcttgc 60

tgtcgggtttc tgaagctttt agctggcagg gacaggtctg tgttggcttt gctgattgcc 120

caacctctc ctgtaatatt aatcctacca gagaaactta aacttgactc aaccgatatg 180

ctattaaata aataaagcaa gcaagttagg ataaaaaaaa aaagcaaaat aataatgagg 240

caccaataag aaagactaaa gaaaaccaat tcat 274

<210> 54469

<211> 341

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-F5

<400> 54469

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tcccacctgc tgcgcgcgcg gcgcgcgcgc ctgcttgaga tgggacggct tggcgacggc 120

tagtatagtc gcccgtcctg ccgtacctgg ttgtttcctt gccacgtgac gtgctgccc 180

gtgcccgtgt gctgggcttt caggcgcgcg gcaactggtg cggatggggg cggaccaacc 240

gtgaactgat cgcgattagg acgatggact aaccaccaac ctgatgtcat taatgaatgc 300

gcgcatagta aatgaacctg catagatgat gcttaactac t 341

<210> 54470

<211> 307

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-F8

<400> 54470

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agcgtgcag atatgtccaa tattctaacg gggcaggaga tcaggaggcc atacaggtgc 120

taaatggaag ccagttggga ggtcatagca taaggctctc atggagccgt atccctgcaa 180

acaagcagcc tcagcaagag cagagccaat ggagcgggtg tggatattat gggatatccc 240

aaggatacta tccatatggc tatgctcgag gccctaaga tctgacatg tacgcctaca 300

cagcata

307

<210> 54471
<211> 218
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-G1

<400> 54471

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tttcgacaaa ttgattatgc tgtagccctt cgggtgaggt ctagacattt cgggtgtcttg 120
aagcacattc ttttttctga tgttggaat gattttctgta ggctagtagt agccaatatt 180
atgtttggat tatatcccc tctaaaaaaaa ataataata 218

<210> 54472
<211> 131
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-G11

<400> 54472

attccctggt cgaccactc ttctaaaaa aaaaaaaaaa aaaaaaaaaa aaataaataa 60
aaaaaaaaataa aaaaaaaacc aaaaagacac actcaaacat tcaaaataat tatctcatat 120
ataatatcac c 131

<210> 54473
<211> 281
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-G8

<400> 54473

accggtccgg aattcccggg tacgacctac gcaacaaaac agatgtggaa caagaagaga 60
gagcatgaag agcagcgtga ggcgaccaga gaggagcgag tctataacttg gagggatcag 120
cttgaatcac tgtatagata gaacggctac gactaaccaa tctctgaaaa ctgaatactg 180
aacatcggat caaatctaata gtgcataatc cactacagcg aactgactg taatgtctac 240

attgactgat catctcatag cggccttgaa tctgaccaga t 281

<210> 54474
<211> 297
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-H4

<400> 54474

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gcagcagcag ctgctggcag cccaggggtct caaccccatg gccatgatga tggcgagaaa 120
catgccggcc atgggtggac tctaccagta ccagctgccc agctaccgca ccaaccctg 180
tggcgtctcc gctgccattc cggcctacta ctgattcatg atatttggga aatctcctct 240
atccatctct ctctatctat atatgtaata atgcagtaag acgacacaca ttatcat 297

<210> 54475
<211> 229
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-H5

<400> 54475

acctgtccgg aattccctgg tcgaccacg cgtacgattg attgagattt atctcaaaaa 60
aaacaattca tatacaaata aataaaaaaa aacaaaaggg ggggtttctt tctaacagga 120
cctagctttc atacacaaac aggcgccccg ttctatagga ttcaagcgtc acgtaacata 180
ccattcaacg tcttaacttt tataaagtgt aacctaaata aaatccact 229

<210> 54476
<211> 217
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-059-Q1-K1-H7

<400> 54476

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gccggccggc cgggtttatac ccaggaaagc cggaagaaca cttctgcctc ttctccata 120

tccaagaacc aaaggtagct agctagccgc gactcgttgg ctagacgatt caagcagcag 180
 cgcaggatgg tggcgccggt ggtgattgcg tcggccg 217

<210> 54477
 <211> 99
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-H9

<400> 54477

gttgggaggg tatttttatt gcttgggtgga cgtatgactt ctacctaaac cgttggccat 60
 ttaaagtcaa acattaggtg cagaaacgaa gcctatttg 99

<210> 54478
 <211> 65
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-058-Q1-K1-H6

<400> 54478

acccacgcga ccggccaaga cgagcagaaa cggaggcagc gaggcaaggc cggagagcca 60
 gcacc 65

<210> 54479
 <211> 272
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-058-Q1-K1-H8

<400> 54479

acccacgcga ccagccaaga cgagcagcaa cagactcagc gaggcaaggc cggagacaca 60
 gcaccgagac agggcaacca tgccaggggg gccacggaca gcaagaacct aagccagcca 120
 cgccacggag aacacgccga aggcgaacga ccagagaaca gaaggcgaca acgggacaac 180
 aagcaagcac agggagcaag gcgagagcag aaacgagcgc aagcccaaga gccaaccaac 240
 aacaggggccc aaaacaccag gccaaacaaa aa 272

<210> 54480
 <211> 245
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-058-Q1-K1-H4

 <400> 54480

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 agcaccgcga caggacgacc tcccagggcg ccacggagag catggacca ggcgagccac 120
 gccgcgggga acaagccgag ggcggtccgac gggagcagaa ggcgacatcg cgcaacaagc 180
 agggcgagga gcaaagcgag agcacaaacg agcgcaagcc caagagccac gcgaggcccg 240
 gccca 245

<210> 54481
 <211> 354
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-058-Q1-K1-A2

 <400> 54481

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 cgcaacggcg agcggcacta tatggccggg cacaggaggg tcggcaggcg gcaaggcccg 120
 gaacgagccg acggcgggcg cctccggcga ggccccgcgag acgaagcgca agacggcggc 180
 gaaggccaag ccggcgggcg cgaccgggag cccgaggaac ggccccgacc gcgagcgaga 240
 ccggggccca cgggcccggag agccggcgag caaccgcagc ggcgagtacc cgggcgacga 300
 cggaagggac acccgagggg cagtcggcg gaccggggac cggcgccaag aacc 354

<210> 54482
 <211> 345
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-058-Q1-K1-A3

 <400> 54482

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 gtctagtttt tggtcttggt accctttgtg cagggccggt tgcaggtgaa ggtgatattg 120

ctgcaccatc tgggagagga ggggctcatc agtacctgag agagctgaaa ctatgtaaat 180
tattctgaccg cgaatgagta cggccagtgt taagccagta aactggctgc atgttgggtcc 240
atagtagtta atgtaagaat gtagctggtg gagactgggtt aatgcctagg gtcgtttcta 300
gttgatacca gtattttgta atgtaatgtt ctgtcgggtac ttccc 345

<210> 54483
<211> 147
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-058-Q1-K1-A4

<400> 54483

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aacaggtacg ggttcaaaca ggggacctag acactcagaa gacgaggagc cagtacgact 120
ggctcaactg gcgaacagaa caccctg 147

<210> 54484
<211> 224
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-058-Q1-K1-A8

<400> 54484

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cagggccgac ggccgaataa gcggggagca gcgcgacggc accaaaccg acacagaaga 120
cgaaggaccc cagaacagca acccacagga ccagagaaga ccaaagcaca acaggcacac 180
acggcgcaag ggcaaacagg aaccgcaaca agaaaaggag gaag 224

<210> 54485
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-058-Q1-K1-B1

<400> 54485

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agatctttat ttatttatag tgtcccttca tacacagtaa tgctcatact tattatcggg 120
 tattccaatc cctcctctac atagatacaa caaatctaatt ttgttccttc ctaatatcgt 180
 atattggcat gttcactcat tgtttgggag catcacaatt cacaaactcc tttgcacatg 240
 ttgcaacttt tactggatca ggtatgatat cccagaaaaa aatgtacctt gctttgttat 300
 attacttgct aatgcaccca actattctac cttttgcata tatatattac ttgcactgcg 360
 tataaaatac ttgggttagaa agatataata ttccttatcg gttatattta caagatggtt 420
 taatgcg 427

<210> 54486
 <211> 145
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-058-Q1-K1-B3

<400> 54486

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 ccgactagtt cattcaggct ggctgagcta agacaggatg aataacggct ggttgagctc 120
 atgcatgaca tttatttggg ttgat 145

<210> 54487
 <211> 267
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-058-Q1-K1-B4

<400> 54487

ctgcgcacca agctgccttc ggagcaccgc tactactttc cggacagcga gaccgcggag 60
 gccgtcatgg ccaccttcac ggcggtcttg acgcggggct tcgccatcga ggtgctcgac 120
 gatcacaacg gcccgccag gatcgacttc aagttccgcc actggggcta catggagggg 180
 cccttcaagg gccaccgctc gcacggccag cgggtcgagc tcttcgcgtc tagatctacc 240
 atgtcgacta atacatgaat gtggaca 267

<210> 54488
 <211> 358

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-058-Q1-K1-B6

 <400> 54488

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 accctgtcat ggaggatgat agcaacttga ggacctatcc tagacaacgt agccgtcaag 120
 aagctgttca cccacacaa accaaaggat aacggggtgc tgaatggaga ctctgaagag 180
 aggtccatgg atgttcccca acacgagctc tgggagaagc tatgtccaac taaccttgac 240
 gagcaaacgt atgtcttacc tgggtggatg aacgaatcaa accgtgccga cgttacatta 300
 actctgactg agttctaagt tcccaaggga aagcgtgccca ttgagcttct gtcaggct 358

<210> 54489
 <211> 304
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-058-Q1-K1-B7

 <400> 54489

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 ggcataact aggagatcct ttccaacccg gagttccttg cagagggcac tgctattgag 120
 gacctgttca agcctgacag agtgcctatc ggtggccgtg agacccccga gggcaggaaa 180
 gccgtccagg ctctcaagga tgtgtatgct cactgggttc ccgaggacag gatcctcacc 240
 accaacctgt ggtccggtga gctcttcaag ctcgccgtca atgcgttctt ggcacagagg 300
 atct 304

<210> 54490
 <211> 146
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-058-Q1-K1-B8

 <400> 54490

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 ttcagtttat gagcatccta ggagattctc aatcttttgg tgcttttgcc agttgacttg 120

actgcgcatg tgccgctctg caccaa

146

<210> 54491

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-058-Q1-K1-C3

<400> 54491

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ccgatggcgc ccaaggccga gaagaagccc gcggcggaaga agccggtgga ggaggagccc 120
gcggccgaga agacgaccgc cggaagaag cccaaggcgg agaagcgggt ccccgctggc 180
aagtccgccg gcaaggaggg cggcgagggc aagcgtggca cgaagaagg caagaagagc 240
gtggagacgt acaagatcta catcttcaag gtgctgaagc aggtgcaccc ggacatcggc 300
atctgctcca aggccatgtc catcatgaac tccttcatct acgacatctt cgagaagctg 360
gccggcgagg ccgccaagct cgcgcgctac aacaagaagc ccaccatcac ctcccgggag 420
atccagacc 429

<210> 54492

<211> 253

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-058-Q1-K1-C6

<400> 54492

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tgtaaaaaaa aaaaaagaaa aagagaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa ataaaaaaaa aaaaaaaaaa aaaaaaacaa 180
ataaaaaaaaa aaaaaaaaat aaacacaaac aaaaagcaaa aaaaattaaa caaaataaaa 240
aaaaaaaaaa caa 253

<210> 54493

<211> 331

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-058-Q1-K1-C7

<400> 54493

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tctgccgtgt tgttagaata aagttgggtg cgatcgatcg atctgtggtg atgagtgtcc 120
ctatctgtgt gtttgtgttt agttccagtc gtctgtgagg aagtcagtta tgtttgagtg 180
agaggggtac ttcgctcttc ggcgaacact gtacttgta tgaggagagt tttcataccc 240
ggtgtgtagg aactctgtac tgtactctga tccttccttt ttcacgaag tgggttttat 300
tttattcaat ttttattact ttattatatt t 331

<210> 54494

<211> 254

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-058-Q1-K1-D3

<400> 54494

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agctcctgga agctgctggc caccgactcc aagcccaagg ccgccaagcc caaggcaccc 120
aaggccgcgc ccaagcccaa gctctcagcg aaggcgaagg ccaagaccgc tgctaattccc 180
aaggcggtgt tacccaaacc caaggccaat gccaatgtca agcctgtcgc ttctgccgac 240
ttgtttccca agcc 254

<210> 54495

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-058-Q1-K1-D7

<400> 54495

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tgaaccacaca tccggactat ggccatctca caccagcaga gcgacgtac atggaacaga 120
agcagaagat cgacatgcag aagatggcca aagtcgcca caagtcgcat agagaccgca 180
tccaagactt caatcaagat ctcgcaaacc taagcgagca ctacgacatc cccaaagttg 240

gccctggcta acatagccaa actggctgtg ttacgcacaa caattgtgtg ctgggtctat 300
ccatttatgt tagcatgtta cgtatcgatt aaaacgattt gttgccacca gaagttgata 360
tttaatttca aaagcatgtt ccaactt 387

<210> 54496
<211> 88
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-058-Q1-K1-E5

<400> 54496

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cccactcaac cgcccacgcg cccgaaaa 88

<210> 54497
<211> 142
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-058-Q1-K1-E7

<400> 54497

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gacgggcaga tgggaaacta ccagagggca cgggagatac aacaacagaa aagaccgaag 120
ccgaccagaa aggggaccgc ac 142

<210> 54498
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-058-Q1-K1-F1

<400> 54498

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tccccgtcgg cggtcccttt tatatatattt ggaggccgtc gccgccgctg acccaggttg 120
tcttgatggc gcccgctgta gaagccgtga aggagacagg ctcgatccag aaggttcctg 180
ccttgaacga aaggatactg tcatccatgt ccaggaggtc ttgtgctgca cacccttggc 240

atgaactgga gataggctct ggtgctccaa ccatattcaa ctgcgatatt gagataactca 300
 ggggcatcaa gggtatatat gaacttgaca agaaaactgg actgatcaaa gtggaccggg 360
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 cagtgat 427

<210> 54499
 <211> 438
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-050-Q1-K1-G8
 <400> 54499

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 gcgccccggc cgccgaggag gactgcgcga gctactgcgg ctccctcctc tggcgctct 180
 gcgaggacgg cgcgtcgggc ccgggctgtg gcgacgagac cgccgcgcgc ccgcggtgct 240
 ccccgtttac gttcgacctg aacgtgccgg accccgcggc cgacgagatg gactggcgct 300
 gcgacacgct gctgcacctg tagccgcgaa cggaagcga gcactcagca taactgctgc 360
 tatcgtgcta tgtctgcata gaaatcgata gcctaaattt tttctctcca ccgcttcttt 420
 agtcccactc tctctctt 438

<210> 54500
 <211> 441
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-050-Q1-K1-H1
 <400> 54500

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 tgagtacatg aaaaagatcg aatccatcca gaagcagaag gaacaggaac tgatgaaaat 120
 ttagacctca agctgactgt atggctggtg aggagtaacc gcctccgtga agcatggacc 180
 cctgcatatg ttggtgtttc tgaagcaatt tgtttggttc atggcttttg cgtctcggcg 240
 ctgcgccagg gatgcacgtt ttgaatcagg cgctttgctg gaacttttgg gtgcacacaa 300

gttgagacaa tgctgctgct gctgtgtgtg tgtgttttga gattaagaca atgctgctgt 360
 gttttttctt tgagattaag acaatgctgt tgcgtgtgtt cttctcgttt tctgtaatgt 420
 tcgtaaatag tctcttcgtc g 441

<210> 54501

<211> 337

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-H10

<400> 54501

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 cggatcaggt atatgatacg agacagagag gcatttacga tgattgagag ctgcatggtc 120
 atcatggata tgatccaggg ctgcacgaaa cgcgcattta agatcctatg ggctacgtac 180
 atgacatcag catgcacatg taaccatgag atgtatagga taggtcagat taacctaatc 240
 tatgatcata tatactagaa tacctgaaca aatcttaaga tcttgctaaa caactgtatc 300
 ctttacataa accattacac gatgcacgat catcaca 337

<210> 54502

<211> 337

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-H11

<400> 54502

accacgcgta cgcccacgcg tccgcccacg cgtccggtga agtggttcgga tcgcggtgac 60
 ggcattctcgt aaattatagg agaaaattct gattgtacta cgatccatag ctacattatt 120
 atcctgtata atatgcacat atgcatggga tccgtatfff atagctgatg gggtctgttg 180
 ctcaaacct tttgtatatc tcaccatcat atatatagat agtgcattatt accctatgat 240
 actattatcc acgctggaat ggattatcaa atcttcatta aatgggttatc caatcaatct 300
 tttttttaat ctattttttt aattattatc attactt 337

<210> 54503

<211> 452

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-050-Q1-K1-H2

 <400> 54503

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 tgcagccggc gtggaccacg acgtcaagat cttggaggta ttgtcggatg gctcggacgg 120
 caagtgtttg tgaccttggg aactccgttt tcattaacca cacacctcta gcaaggagta 180
 caacctgaaa ccaattgggtg atgctgggtcc tgtaactgag gcggggaggga tctttgccta 240
 tgcccgggaag acatgaatga ttgcgttgaa agctgctgca tgaggggaaag gtaaaataat 300
 tgtatttcat gttaagttcc tatgcatatc aagctataaa attgagcctt gtcgatacat 360
 attgttgtgt gcttagatta gtcttcatat aattgttgtt cagggataaa atgggttcat 420
 attagtcact tgtgtttgat agtttcatgt at 452

<210> 54504
 <211> 335
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-050-Q1-K1-H3

 <400> 54504

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 gagtatattg tcggtgctat gccagcaaca gagcttattt tgtcccgaag aaaaaaaca 120
 gaaagagaaa gagaccattg aaaactacga aatcattaac cacacaccta taagcaagga 180
 gtacaagatg aaaccaattg gtgatactgg tcctgtaact tgagcaaaaag ggataaaaag 240
 actatgcccc atttacatga atccaatgtt ttgaaagctg ctttatgaag gaaaggtaaa 300
 ataatgggac cccaagataa attactatgc atatc 335

<210> 54505
 <211> 457
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-050-Q1-K1-H4

<400> 54505

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cataaacagc taaagacgga ggataagata tctagtgtgt gtgagaagtt gctcaaccgc 120

tgtgtggcac ctacatctgg tggcgaagga tgtgataaca tgacggttat tgtggttcaa 180

ttcaagaaac cagcttttagc tgttgctact tctagcgtg agcagtctgc taccactgca 240

gaagggatgc ggcccaacga ggtcgatggc ccagattacc cccgaagta ggcgttgagt 300

ggcacaccgt gctgtggagc tctaaccggt ggataataga caaaaaagga tagtgagggtg 360

gtgtatataa gaaaagggat tctattcgac aatctcttat agggtttgnt gcttccttct 420

ttctagtgtt cagagtcgtc gcaacctgta atacatg 457

<210> 54506

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-H5

<400> 54506

cccacgcgtc cgcttcgtga agacattgac tggcaagacc atcaccttgg aggttgagag 60

ctccgacacc attgataatg tgaaggccaa gatccaggac aaggagggta tccccccgga 120

ccagcagcgg ctgatcttcg ccggcaagca gctggaggat ggtcgcacct tggctgacta 180

caacatccag aaggagagca cctccatct ggtgctccgc ctgaggggag gtatgcagat 240

ctttgtgaag accttgactg gcaagaccat aaccctggag gttgagagct ctgacaccat 300

cgacaacgtg aaggctaaga tccaggacaa ggaggggatt ccccgagacc agcaacgtct 360

gatctttcgc cggcagcagc tggaggatgg tcgcaccctt gcagactaca atatccagaa 420

ggagagcacc cttcacctgg tgc 443

<210> 54507

<211> 229

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-H6

<400> 54507

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atgtgatgtg agccactgca cgcgtgagtg tcacatgggt cgctgctctg tctcgtctca 120
tgtgtttcaa actgtaggca gcagaggatc gagatgcgtg tctgctttgt tcgtgttcac 180
tgctgtcagt ctgtcaccga gttcaataat ttagctttgt ttcacgagg 229

<210> 54508

<211> 274

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-H7

<400> 54508

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caaacggatg aactatatat tgacgttatt ataccaacag cacaccttat tttgtcccga 120
aaaaaaaaaa ttactagact aatgtgtaac taactgtaag caacagagta tccaaataac 180
gtgtatcgat ttattcgtga acaatgctat caagactgaa accgaattta aaaattaaaa 240
cttagataaa taaaaagtgt gcacctttta taag 274

<210> 54509

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-H9

<400> 54509

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gcgatacaaa acggctctca aagctcacag tgctgttgtg ttaaaggctg agagcatggc 120
cgacaagggt gagtgggtaa ataagatcaa agctgttatt cagagcaaag ggggttcttt 180
caagggtcca agtactgagg gtagttcaat gaggcaaagc aattcggatg gcgctttaga 240
tactatggca cgtagacctg ctgatcctga agaagaactt agatggatgt ctcaggaagt 300
cgtgggttatg tcgaagcttg tttgaatagt ctggcagcaa atgttccaaa agctattgtg 360
ctttgtcaag tggagaaagc aaaagaagac atgcttaacc agctatacag c 411

<210> 54510

<211> 344
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-057-Q1-K1-B11

 <400> 54510

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 ggatcttaca ttccggggtg gcaaggatg ctcacccgta tttgaagatt gacgttggtt 120
 ataacctgat actattatgt gataagatac atatagtctt gtcagttggc tttacctttc 180
 gaaacatttt gattgttatt gtatttaata ataacatatt ttcgtctttc ctgtaaatac 240
 ctgttaaagt taacccttat ttctgttaca gttttaaaat aaattattta tcttattata 300
 attattatgt tatttctttc ttatattatt ttttattttt tttta 344

<210> 54511
 <211> 300
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-057-Q1-K1-F10

 <400> 54511

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 aagaacattt gagatactac agcttctatt ttcaaaagtt tgaatctgtc tacacacatt 180
 gtgaatatta cagtgggtgat gattttataag atgtaaatat tctaaatggg ctgggtttcac 240
 tgacacacga tcatatggcc ctgggtttggt gctatggggt cttcttttga gttgaatccc 300

<210> 54512
 <211> 389
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-057-Q1-K1-H11

 <400> 54512

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 atttaagatt actaataggg ttgcagtaca aaacggctcc ggaagctcac agtgctgttg 120

tggttaaaggc tgagagcatg gccgacaagg ttgagtgggt aaataagatc aaagctgtta 180
 ttcagagcaa aggggggttct ttcaagggtc caagtactga gggtagttca atgaggcaaa 240
 gcaattcggg tggecgtttt atatactatg gcacgtaaac ctgctgatcc tgaagaaaaa 300
 cttatatgga tgtctcaaga agttcgttgt tatgtctaag ctgttttgaa tagtcttggc 360
 agcaaagtgt ccaaagtctt attgtgctt 389

<210> 54513
 <211> 448
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-G6

<400> 54513

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 agctactggc cggcgtcacc atcgcacacg gcgggggttct gcccaacatc aaccctgtgc 120
 tgctcccaa gaaaaccgct gtcgctgctg ccaaggaagg caaagagaag aagtcacca 180
 agaaggccgc cgcgcgaag tcgccccaaa aggtggcgc ctcgtaggtc cctggcaatg 240
 ctgatgcact gtctctctct gtctctctg aactgaaacg ctcctaactg tcgttgctcg 300
 tcatggcgtg tgttgtttga tgcgctttta ttgtggttgt tcgtgtgtaa ttgcttgctt 360
 ttcgcccatt tggcatgcac tgtgtagggt cacactgggc taggttttca atctgggaaa 420
 caccggttta gattcaagga gcgtgaac 448

<210> 54514
 <211> 444
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-E6

<400> 54514

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 tggtgacaag tggaagtccc tgtctgatgc cgagaaggct ccctacgtgt ctaaggcaga 120
 gaagctcaag gctgagtaca ccaagaagat cgacgcttac aacaacaagc agtctggaga 180
 cccacggcg tctggtgatt ccgacaagtc caagtccgag gtgaacgacg aggacgagga 240

gggtgacgag tgatgtatga cggatgaaac tctgtccaag tgtttgacgt cagggaaaaa 300
atctcgtcgt tgtcggccta accgggtttt ctcgaaagac tttctagatg cagtagatta 360
gtgccgtctt ctgagtagtt tccttgcaag tgtcgtcccg tccctggaat gaggcaattt 420
agtttgaat ttcttcgctt catc 444

<210> 54515
<211> 348
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-E7

<400> 54515

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tgtgttgaaa gagctgaaac gcctgtgtgt cttaatctgg aaccctcttc tcccgtttta 120
cttgtccgtg gaaacatttc atgttccagc tggttgtata ttccgaaaca gaccatgttt 180
tagttcactc gggtcttcgt tgacttaagt tatttatcaa atatttaagt atcgtagta 240
agtttgaaac ctggggggaa gaactatgct ggctttgttg tactgccaat ttcaatttag 300
gaaggatgaa attgaagtta aaaaacatct aaaaagctca tctacaag 348

<210> 54516
<211> 165
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-E8

<400> 54516

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ggtgcgcaag tacatgtccg gcgcggggct ccgcgccgga tgcgggcccg gggccgtggg 120
cgaggtgtgc atgccgtatc tgggtggaggg tgtgatgcgc gccgt 165

<210> 54517
<211> 349
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-E9

<400> 54517

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tggggagctc cgggaacgga agctccgccg cccgcgcgtt cgacctcaac ctcccggccg 120

tgccggagtt cgccttccgg tgcggcgcca agcccggcaa gatgtgggac gaggaccagg 180

aggtgcagag cccctcgcc ttcaagaagc cccgcctcct catgaccgcg tgagcctgag 240

cctgagccga ggcgcggatc tgatgttgat ccgcacgaga cttttttgga tgttcgggtg 300

aacactattc gttcgttcaa aaaaaatttt tattattttt tatgttttt 349

<210> 54518

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-F1

<400> 54518

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cgatggcgcg cggcgtggtg tcggcgaagg gcggcgcggt cgcgggcaag aagaaggggt 120

cggtttcctt caccgatcgac tgcaccaagc cagtggagga caagatcatg gaggtcgcct 180

cgctcgagaa gtctctgcag gagcgcatca aggtcgccgg cggcaaggct ggcaacctcg 240

gcgactccgt caccatctct cgcgagaaga ccaaggtcac cgtcacctct gacggaccct 300

tctccaagag gtacctgaag tacttgacca agaagtactt gaagaagcac aacgtgcggg 360

attggctacg cgtggttgct gccacaagg accgaaacgt ctatgagctc cgctacttca 420

acattgctga gaacg 435

<210> 54519

<211> 304

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-F2

<400> 54519

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gggaaagtga cgagggatgt ctgcgagaat ggcgtcggcc aatgtcgtcg cggctctctcg 120

caaaaaaaaaat gtgtagggtc ttttgacaat cgattgcac aatccattag atgacaatat 180
catgtatgtg gacttgggtc atatgttcct acaggaccgc atcttggccg cctgcagagg 240
acctgtgccc atttaacact atagaaccat gtgtgaccag aataactaact taaccgtaac 300
ctca 304

<210> 54520
<211> 454
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-050-Q1-K1-F3
<400> 54520

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accgccatgc tggatgatctt ggaaacgtga cagctggagc agatgggtgtt gctaatatca 120
atgtcaccga cagccagatc ccactgactg ggccaaactc aatcattggc agagctgttg 180
ttgttcacgc tgatcctgat gatcttggaa aggggtgggca cgagctcagc aagagcactg 240
gaaacgccg tggccgtgtt gcttgtggga tcattggact ccagggctga aaacgatcgc 300
cggacttggg ggtgcctgag aggtccgtct cctgccgtcc ccagcagacg agcctgaaca 360
ttcggagaca tcgtgaaata agagcgtcgc tgatctgtga tcatcgtatt tgtcattatg 420
cacctgtagc aaccgatgga ctgaactgtg ctgg 454

<210> 54521
<211> 213
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-050-Q1-K1-F5
<400> 54521

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gcatcagacg gcgttgataa tatcaatgtc acctacagcc acaaccgact gactgcacca 120
aactcaatca tcatcagagc tgtctttgtt cacactgatc ctgatgatct cgtaaagggt 180
gcacacgagc tcagtacgag cactggaaac tcc 213

<210> 54522

<211> 359
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-F6

<400> 54522

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tacgaagcgc tgtgcccgtt ctgctccgcg tttgtcgtga acgacctctc caggggtcttc 120
cgcgacggga tctcctccat cgctgagctg cggctcgtcc tttccgcaat gggcctttct 180
cggccacagg aaccgtcact tggcaacatt gaaaggacca gtggccaact caacgctata 240
gaagcttgcg tgatcagaat atggcctgac gcggagcagc attttccttt cattcaatgc 300
gttgagcatt tagcactgac tcggaaatgg gactcctggc agtcttgctt tcatgaaac 359

<210> 54523
<211> 219
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-F7

<400> 54523

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agtaccagag gcggcatgcg gctaategct gaaaccgtac tgctgcacca tagtcgtgaa 120
ctaacattaa atggacttac aggcagatat ctattgacat ggctcaaact caatcattgg 180
catgagctga tgttgctcac tctgaccta atgaacctt 219

<210> 54524
<211> 435
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-050-Q1-K1-F8

<400> 54524

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aattaagcag ccaaattcag tgcgatggcg tcgtccgtca ccagaaccgc atgtctcttc 120
gtgctcacac tgttcgtcgt ctccgcggcg gtgatcttgc ccagctccct gtgccatgga 180

gcccgcggcg tcgcaggggtt acgtatcggg ttggacccta accatcctgc gtgcatccgg 240
 gcatgctcag ctctgngggg ctctacact cgccttcccc cctatcgagg tggcgggcct 300
 gtggaaccgc ttccccacc gaacggaggg aaccctgac gccgctgcc tacgatggaa 360
 cgatgcgcca cgcacaactg tatcttagct gtgcttatat agtatatgtg atcaataaaa 420
 ctggagtagt gctcg 435

<210> 54525
 <211> 184
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-F9

<400> 54525
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 ggttgaaaga attgtaaatt aaaacaattt tggtagttga ttttaatgtc gtatttctta 180
 tacc 184

<210> 54526
 <211> 199
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-G1

<400> 54526
 aaaaaacata caaaaaaaaa aaaaaaaaaa atcaaaaaat atttaaaaaa aaaaaaacia 60
 aaagaaaaac taggacaaaa tcaaaaatca aacacaaatt aaacaacaaa catctaaata 120
 cataaaaaata taaaaaacct caccacattt aaatcgaata tattcttaat tccattacta 180
 tctataacat aacttattt 199

<210> 54527
 <211> 391
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-G10

<400> 54527

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actacgcgtt cgcccacgcg tgctggcacg cgtccgacta atctactcta caccagatat 60
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tcggcatggg tctgatccag ggcggcgcgga agcgccaact gaagggtgcta cgcgacaaca 180
tccatagcat caccaagccg atgatccgga ggctgggttag gatgggtggc gtgaagctca 240
tctaggagct tatatactag gagaccgaa gcggtgtcaa gatctttctc gagaacgtca 300
tccgcgacac cgtcacctac accgagcacg ctcgccgcat gaccgatacc gtcattgtacg 360
tcgtctacgc gctcaagcgc tagggacgca c 391

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<210> 54528
 <211> 411
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-G12

<400> 54528

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cggacgcgtg ggcgtcgcac tcgcccgcg aggagtacat gggggagttc gcggagccgg 60
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agatcgaggg gttcatcgac gagtgcaaca acaacctgga cctcaagaac cgctgcggcg 180
ccgggatcgt gccgtacgag ctgtcaagc ccttctccaa gccgggagtc accgggaggg 240
gcatccccag cagcatctcc atctgatcca tctcagcat gcattagtcc aattaattaa 300
atcgggggtt gtactattat tgcattgaga ggctgcttgt cgaataaaac gtactatatg 360
tacgattgta ttgtacatgt gtgtcaatgc aacaagaggc acgtttgaga c 411

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<210> 54529
 <211> 340
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-E5

<400> 54529

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gccattaagg atgtagttac cagattcaac aagaccaatg gattcatatt gtattgggtt 60
acttccgata cccgcttgca tttgcatgta tggttggcag ctgtctttgc aaaaaaaaaa 120

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aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaaaaaa aaaaaaagga cgaacaatct aaaaagatcc aaagctaaca tacacaaaca 240
 tgcaacgtca taactttaat ataagtgta cggaaattca attaaaatgg ccgtactttt 300
 acaaattcgt gcctggaaaa acctatgcgt ttcccaactt 340

<210> 54530
 <211> 362
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-C5

<400> 54530

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 aatactagtc tgcgtgtttt ctaatatgaa gatccatcta ttttattact taaccatagc 180
 gtagatgatt ggtaacagat agatacattt tatttactga ttaaaatgca gcagcgactc 240
 cccgaactta aaacaggtaa acgggtgtgg aaacttagtg gtcattcaa aactgtctaa 300
 aatcgggttt gctcaaaca agtgctgaca tggcatgtca tgttgaaatc atttgagtct 360
 ct 362

<210> 54531
 <211> 259
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-C6

<400> 54531

cccacgcgtt cgccacctac tgccgcctat cggtagaagg atccgacggg ggatacccg 60
 cagatagcga tggaccgttc gaactgcgct actgccgggc ttagaaccgc agacactcat 120
 aactacctta ctagggacta gagcccatac agtgatctac taaatcccag tacagtctcg 180
 agtgtcaaga gaagaatctg aacctagaag agctactgga tcctgatggg agagacacac 240
 gatgagcact ccaagacgg 259

<210> 54532
 <211> 181
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-050-Q1-K1-C7

 <400> 54532

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 gaccgcccga tccacccctc tgctgaagc tgttcgggtt tctttttgtt tcccaatgcg 120
 tctgtggtct gatctctttg taatgaaaac ggcagctca attagaatga acttcagttg 180
 g 181

<210> 54533
 <211> 408
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-050-Q1-K1-C8

 <400> 54533

 gagccacacg tgctccaact cctgagcact ttatcttagt actatacaag ccaatcgaag 60
 ccgggatacg acggtggact gcatcggcac cggagcatgg ggtaagggga agaagggagc 120
 ggccgggagc aaggctggcg gtccaaggaa gaagtcggtg tcgaggtccg tgaaggcccg 180
 tctccagttc cccgtcggcc gcatcgggag ctacttgaag aaggggccgct acgcgagcgc 240
 tgtcggcacc ggcgcccccg tctacctcgc cgctgtctc gaataacctc acgctgatgt 300
 tctggagctc gccggtaatg cttccaggga caacaagaag actcgatta ttccgtgcc 360
 cgtgcttctg gcgatccgga acgactagga gcttggaag cttttggg 408

<210> 54534
 <211> 309
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-050-Q1-K1-C9

 <400> 54534

 cggaacgctg ggaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
 ggaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaata atataaaaat aaaaaattaa taaaaaatta tataaaaaat tataattata 180
 tataataata tataataaat taaaaataat ttttttattt attaaaaaat tatatttttg 240
 gaattatatt ttttaacttt ttttaattttt tttattttta atttttttta tttatttttt 300
 tattattttt 309

<210> 54535
 <211> 253
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-D1

<400> 54535

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 attattgtcg tattatccta tgaaaccctt ttattttcat ggtatcgaaa aagctctatc 180
 gtgccagata aacataggct ccttgccctca atctgctgta atcttggtgg ttcactggac 240
 ttatggttcc tga 253

<210> 54536
 <211> 440
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-D11

<400> 54536

agaagatggt ggtggtggag caggtgggag agcccggtgct cggctacgac gacttcgccg 60
 gcagcctccc cgccaacgag tgcaggtacg ccatcttcga ctacgacttc gtcaccgagg 120
 agaactgcc aagagcaag atcttcttca tcgcctgggc tcttgacacg gcgcgcgtga 180
 ggagcaagat gatctacgcc agctccaagg agaggttcaa gggggagctg gacggcattc 240
 aggtggagct ccaggccacc gactccgccg aggttggcct tgacgtcatc cagggccgtg 300
 caagctgagg atgccacgag atgaactgcc catgccagag gatgtatgag catcatcagt 360
 tccgatgaga acttaactgg gggggctatg taaaaactgc atccaccgca gtgatgaaat 420
 caatctagtc aatctaccac 440

<210> 54537
<211> 62
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-D12

<400> 54537

aaaaaaaaa aaaaaaata aaaaaaaaaa ataaaaaaaaa aaaaaaaaaa aaaaacatac 60

gg 62

<210> 54538
<211> 381
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-D2

<400> 54538

ccgcattcgt tccaactcct gagcactttc tcctcgcccc agacaagcca atcgaagccg 60

agatacgacc atggactcca ccggcaccgg agcaggggggt aaggggaaga agggagcggc 120

cgggcgcaag gtcggcgggc caaggaagaa gtcggtgtcg aggtccgtga aggccggtct 180

ccagttcccc gtcggccgca tcgggcgcta cttgaagaag ggccgctacg cgcagcgtgt 240

cggcaccggc gccccgtct acctcgccgc tgtcctcgaa tacctcgccg ctgaggttct 300

ggagctcgcc ggtaatgctg ccagggacaa caagaagact cgcattattc cgtgccacgt 360

gcttctggcg atccggaacg a 381

<210> 54539
<211> 457
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-D3

<400> 54539

cccacgcgtc cgcgcacctg caagggatta cagcatcccc aaatcatcgc agtcaactcg 60

agtcttcaact acgatagggtt ccatagcaga ccttggtgttt gcttacaaca ccggcatgct 120

gccagaaatt caggcaacca tcaggcctcc tgtggtgaag aacatggaga aagctctatg 180

gttccagttc accattgggt ccttgccctct ctatgctgta gtttttgtgg gttactgggc 240
 ttatgggtcc tcaacatcag gctacctcct caacagtgtc acaggcccag tctgggtgaa 300
 agcggttgca aatctgtcgg cattttttca gacagtcata gcgctgcaca tctttgctag 360
 ccccatgtat gaattcctgg acacaaaata tggaagtggg cgtggtggcc cttttgagat 420
 ccacaacgtg gcgttcagag tagcagtcag aggagggc 457

<210> 54540
 <211> 436
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-D4

<400> 54540

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 gttcttcacg acgatagggt ccatagcaca ctttgtgttt gcttacaaca ccggcatgct 120
 gccagaaatt caggcaacca tcaggcctac tgtggtgaag aacatggaga aagctctatg 180
 gttccagttc accattgggt ccttgccctct ctatgctgta gttcttgtgg cttactgagc 240
 ttatgggtcc tcaacatcat gctacctcct caacagtgtc acaggcccag ttctgggtgaa 300
 agccgttgca aatctgtcgg gcatttttca gacagtcata gcgctgcaca tctttgctag 360
 ccccatgtat gaattcctgg acacaaaata tggaagttgg cgtggtgggc cttttgagat 420
 ccacaacgtg gcgttc 436

<210> 54541
 <211> 347
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-D7

<400> 54541

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 gcgatagggt ccatagcata ctttgtgttt gcttacaaca ccggcatgct gccagaaatt 120
 caggcaacca tcaggcctcc tgtggtgaag aacatggaga aagctctatg gttccagttc 180
 accattgggt ccttgccctct ctatgctgta gtttttgtgg gttactgggc ttatgggtcc 240

tcaacatcag gctacctcct caacagtgtc acaggcccag tctgggtgaa agcgggttgc 300
aatctgtcgg cattttttca gacagtcata gcgctgcaca tctttgc 347

<210> 54542
<211> 69
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-D8

<400> 54542

caattccctc tcgaccaca cgtccgattt taactcataa aatgtcttca acctttttac 60
caaaaaaca 69

<210> 54543
<211> 122
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-E1

<400> 54543

cccacgcgtc cgcttaaata ccttatgcta ctctgattgt gttgcaactt gcaactgccc 60
gtgtacttga tagatttgta ttagatgctc aagctacaga gggtaggttc ctaattatga 120
cc 122

<210> 54544
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-E11

<400> 54544

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aagctccaaa atcatttgag aagcctgcac cagttcaaaa gccaaactcct ccatectctg 120
cagagagact aaaagatata gctgctggta ttcaaagtag taaatcaaac aattacaaaa 180
gatctgaagg ccagaacttg ggaaatttcc ttacggaccg tccgtcgacc aaagtgcag 240
cagctccagg tggcgactct tactcgggtt atcttttttag tggcagcaaa gatggcaagt 300

gatgtacacc tgctgttagt gttcgccatg atcatgggag aaggtttctg cttacaaaag 360
 gaaaaaggga aaagaatctt gtattccatg aggtaatatc aaactgctca tggatatctat 420
 gttggtg 427

<210> 54545
 <211> 234
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-050-Q1-K1-C4
 <400> 54545

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 ctcgacaacc tggatcatcca catcgagcta accacgatcg tctgcttcgt cacgtgaccc 120
 gtgcgtaaga gctgaccaag ggtagccaat cacatgaaag cagcccctat gacgaactat 180
 gtgaccaagc cctttaactc tgctttcaga atctggaaca gaacatagga cgct 234

<210> 54546
 <211> 442
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-050-Q1-K1-E12
 <400> 54546

tgctttcatg ctggagcatt ctgctttgaa gttctgcaat tagagtacac ttattttgag 60
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 gatgtaaacc agcttttagaa gaacatttga gatactacag cttctatttc caaaagtttg 180
 aatctgtcta cacacaaagt gaagattaca gtgggtgatga ttcagaggat gtaaataatac 240
 aaaatgggct ggtttctactg acacacgatc atatggccct ggtttgggtgc tatgggttct 300
 cttttgagtt gagtccttat gaagggatcc gtcattccgt tggacaagaa gataatcttt 360
 aatgaagtct tgggagatct ccctaattgtg ttgcctcatt ttccatgaaa aacagggtgta 420
 tatatgagag gatcgcggtc aa 442

<210> 54547
 <211> 363

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-E3

<400> 54547

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ggactacttc gatcggtact gatcttggt gagattagag atctctgact gattctccag   120
tcatgtgatg tgtgtatgta tgctaaatat gtctgtatac catcatgggg tacactgacg   180
cttacattgc acatatgtaa ttatccactg atgtcgtggg tacgtacgca aaatatgtat   240
gtatgccatc atgggtatgcg ctgacactta cgtttgacac atatgtgatt ataaagatca   300
ggctgctggc caggaacact catcgttgag gtgataggac ttaagtgaat cgtacatgag   360
att                                                                                   363

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<210> 54548
 <211> 227
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-A2

<400> 54548

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cggacgcgtg cgaaaaaaaa gaaaaataat ttaaaaaaaaa aaaaaaaaaa aaaaaataaa   60
ggaaaaaaaa aaaaaaaaaa aaatacaaaa aaaaaaaata aaaataaaat ataaaaaaaa   120
aaaattaaat aaaaaataaa gaccgagagg ttataatcgt tcacgtgata taaatgccaa   180
caacaaaata taattcattg ataacctaaa caatattgaa attactt                               227

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<210> 54549
 <211> 406
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-A3

<400> 54549

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cccacgcgtg cgcccacgcg tccgcccacg cgttcgtcca cgcgtccgaa taatatatag   60
gcttgaaca acggcagggc agagtggaag gtcgaccca ccaagcggag gccacggtct   120
gaaactcaaa ctgggtttca actgacgcta gctggcttgg aagctcgagg atggatcgaa   180

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gactatgata tccttcattg tgcctgtca ggctacctac ccctgcaccc tgttggttat 240
 tggttaaaat gggtattgac caaagggtgtc ctgcatcaaa caagggtcac cttgatgtta 300
 atgtgctgag ggatctaag tatcattagc gttatccagc tcttgtttac gtgctccatc 360
 tcaatccatg cacgttagga tggattgtct aatctagttc aaattt 406

<210> 54550

<211> 341

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-A7

<400> 54550

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 caatactctc actgattata gctcgattaa ctaggatgaa ttccaactag ccttatttaa 180
 gaccatcaca aaggatagca tgtagctca ccgggtcata gactagtttg acacgataca 240
 caacggaatt ctcgagtttg atgaatttgc tctgtgctcc atccgtgtgc 300
 accaatcgat gacaaatttg attttgcttt ocaattgtat g 341

<210> 54551

<211> 68

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-A9

<400> 54551

cccacgcgtc cgcgggagcg agagtgagaa aaaaaagtaa agagtactgt atagccagct 60
 attcatgt 68

<210> 54552

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-B10

<400> 54552

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gcgcacccctc gccgactaca acatccagaa ggagtccacc ctccacctgg tgctccgcct 120
ccgaggtggc gccaaagaagc gcaagaagaa gacgtacacc aagcccaaga agatcaagca 180
caagcacaag aaggtaaagc tcgctgtgct gcagttctac aagggtggacg acgccaccgg 240
caaggtgacc cgcctccgca aggagtggcc caacaccgag tgcggtgcgg gtgtcttcat 300
ggccaaccac ttcgaccgcc actactgcgg caagtgcggc ctcacctacg tctacaatca 360
gaaggcgtaa tcccatgcgc cgctttgctt caccgccta cctatcaagc attcacctgt 420
tggttactcg atttgaatat catttagatc t 451

<210> 54553
<211> 446
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-050-Q1-K1-B11
<400> 54553

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gtaggggttac ttagggtttt gtggaggggc gatggcgggc gctgatgtgg agtaccgttg 120
cttcgtcggc gggcttgccct gggccaccag caacgagtcg ctggagaatg ccttcgcctc 180
ctacggcgag atcctcgact ccaaggtcat caccgaccgg gagacgggga ggtctcgcgg 240
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cggcaaggag ctcgacggcc gtaacatcac cgtaaccag gccagtccc gtggcggtgg 360
cgggtggcggc ggtggctacg gcggcggtcg cggcggcggc ggctatggtg gcgggcgccg 420
tgacggcggt tatggcgggc gtggcg 446

<210> 54554
<211> 443
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-050-Q1-K1-B12
<400> 54554

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cctaccagaa gctacccggc ctactgttct tcaaaaaccc aaggacttgc ctgctatcaa 120
gcagcaggat atcaggacct cttcctcaaa agaagagccc tgcttctctg gtaggaatgc 180
agaagcagtt caagtgaag atactaagct ctcccgggtca gacatgaaga aaatccgcaa 240
agctgagaaa aaagataaga agttcagaga tctgtttggt acctggaatc cgggtattgat 300
agagaatgaa gggttcagatc ttgggtgatga agactggctg ttcagcagta aaaggaactc 360
cgatgctatc atggttcaaa gcagagctac tgatagttca gtgccgatcc atccaatggg 420
gcagcagaag ccttctttac aac 443

<210> 54555
<211> 123
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-050-Q1-K1-B6
<400> 54555

gaaatgctaa gcaacgaact cgtattatcg attgtggatc tctagctttg atatcacgtt 60
agagtggacg cactgataac cagtttaaca taaaagttta agcaatccac ttataactttt 120
ctt 123

<210> 54556
<211> 432
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3088-050-Q1-K1-C1
<400> 54556

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acacattatg cgaagttttg acggcacggg taccctcatc accagacgtt tttccatggg 120
tgaaaccgtg atcgggcacc ccaacagcta ctagaaagtg atactcttta tcagtcagtc 180
aagctgaata ttttcaaaat tttcagacca tacagtgata agcatgctac tgctggacag 240
tcgacctaat tgtctgtcct gcggaattgt ttctgggagt gtgtattgct aagtcggttt 300
tgtccgagtt atacgagaca tatggcttga gtcgtgtcac caatatgctt atgccatatg 360

actatcagag tntacttttta atttcagaga acataatttc catcaatttc agtaggttca 420
 tttttaatga at 432

<210> 54557
 <211> 221
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-C10

<400> 54557

cggacgcgtg ggaaaaaata aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaag 60
 ggaaaaataa aaaaaaaaaa gaaaaaaaaa aaaaaaaatg gaaaaaagtt tttatggttt 120
 aaaggttcca tacttttgtt tgcttggttt taattttttt attttggtac ttagtttaat 180
 ttaattaggt catatgttta taattttata aactggtaaa t 221

<210> 54558
 <211> 316
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-C11

<400> 54558

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 gaggtgggat ttgggttggg ttggctccga atgcgatgtt atgccttagc acgtgatccc 180
 ccaagaacaa taatttttct ttcaggcttc tccctaaccg aacattggag aggacagcat 240
 gtaaagaaat gtaaaaatgt accggttctc gatcaaaaaa aaaaaatatt attaaaatta 300
 taaattatat taatat 316

<210> 54559
 <211> 439
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-050-Q1-K1-A10

<400> 54559

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 tcgcatggat ccaactgtgt cttcagctca gatcagcgca ccatctcaac agagaggtcc 180
 tatgttccat ggaaggaatc ctatgggtccc ccttccttca tttgattcac ctggtgagcg 240
 gatgagaagc cggagaaatg attcaggtgt taaccagtct gataataagc ggcagtatga 300
 gcttgatgtt gaccgcataa tgcgngggga agactcacga actacactga tgataaagaa 360
 tatcccaaat aagtatacct ccaagatgct cttggctgct attgatgaaa gtcataaggg 420
 cacttatgat tttatttac 439

<210> 54560
 <211> 240
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-050-Q1-K1-C12
 <400> 54560

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 ggatctacac aattgtgaca tgatgtgttt ctacaggcaa tcgttggtta ctcatcctc 120
 aataattcta cctcaagggt accttgatga tttttacaat tctgcttttt cggaccgtaa 180
 attcaagcta ttcttcatag gccatgctca tttacactga tacttccaaa gatattcatt 240

<210> 54561
 <211> 282
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-050-Q1-K1-C2
 <400> 54561

ccgaatcggt cggaggtcca gaacattttg ttgtcgttcg aaacaagcca ttcgaaattg 60
 aggtacaacg gtgatctgca gaggtaccga ggcattgctg tagggatcga aggcaccggc 120
 cgagcgcacg gtcggcgggc catggaagaa gtcgatgtcg aggtgcttga aggccgatct 180
 acagttccgc gtcggacgca tctggcgcta cttgaagaaa ggccgggtacg cgcagcgtgt 240
 cggcaccggc gccctcgtct accttgacga tgcctcgaa ta 282

<210> 54562
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-C3

<400> 54562

agccgccatc gcgccgccga ccgccgtcga cagcctcgac gacctgctca tcgacatagg 60
gctagacgac atcgcgagct tcttcgcgtg acccgcgcggt tctagctgac caagggtagg 120
gaatcaaadc aaagcagccg atgtggcgta gtatgtgacc gagccctctg gctctgcttc 180
ctgaaactgg aacagaacag aggaggggaag agcaccagag ctctgcttcc tgggggtccat 240
gcagatgcag gatgcaggcg taaaaaccta ggagatgaac aagagtagag actgcatttt 300
ttacccctct ttttttgtga atcttattgc tcttcagag gactgagggt attgtgtttg 360
cattgtatta ttgattatta atgtcaatgg gaaaaataag atccttcgtg cc 412

<210> 54563
<211> 356
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-049-Q1-K1-F6

<400> 54563

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tccagaatcg cgacagagtt gcagaggcca cgaatgaagc tgatgaacta aataatatca 120
acaaaagtaa caataattat ctaagaaaga caagccaatt gcaagcaca atagagatgc 180
cactgttgaa tatcaagctg attaccaaac tattggattg ccaaatatca ttgagaatat 240
ttcaaaaact gggtcacattc ttgctgagat gcttagcgaa gaacaagggc taaatctaga 300
gatagattaa aacatacctg atattggttt gacaatcttt aaaggacaga tggagc 356

<210> 54564
<211> 251
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-049-Q1-K1-F7

<400> 54564

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cgccagtcgc gcggcggccg tggaggcggc ggaggcagat acggaggctg gcgccgtgat 120

ggaggcggct acggcggagg cggtgaggc taccggcggc gtcgcggagg ctacggctgc 180

cgtggcggat acggtggtgc acaccgcggc ggcggctaca ggaacaacga cggaactgg 240

aggaactgag c 251

<210> 54565

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-049-Q1-K1-G1

<400> 54565

cccacgcgtc cgcccacgcg tccgctgcgt cataacaact ggaacagcag acacagggaa 60

tgggatgcta ttaatgattt aagagctgac atgggtagac ttcagcaagg gatgagcagc 120

atgcagagga tgctggaagc gtgcatggac atgcagctgg aattgcagcg ttctgtgaga 180

caagaagtgt cagctgcctt gaatcggttt gcaggacctg aaggattgtc gatggatctg 240

tgtgacgatg gatcaaatg gaatcaggtg aggacaggaa cctgctgcgt atgctgtgat 300

tcacagattg attctctact gtacaggtgt gggcacatgt gtacttgctc gaaatgtgca 360

aatgagctgg tgcgcagcgg 380

<210> 54566

<211> 449

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-049-Q1-K1-G2

<400> 54566

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gaatacgatc ttccgtcggg agattttcct tatgtggagc acttcaaaga ggtcttgagc 120

ggttacagct ttgacaagtt tgagaagggtg aagcccaaga tgatacaggc cgtggatgat 180

atgcttggat atgacattcc tgaacttctc aagaacttca gaaacccata cgagtgaacc 240
 catacaggcg gttgaaagat gacttcgatc tgcaacagaa tgagggattg attgtcaggc 300
 gatgtgaatc atagtgggtca atgtctcttg gggcgttcat tgccatccat gcttagccat 360
 tgntatataa ctttatgcat aagaatcata gagccattgc tcaagctttc accagacatc 420
 tgattatgta aaatccacaa aatagtaat 449

<210> 54567
 <211> 368
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-049-Q1-K1-G3

<400> 54567

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 gaccaagcg ccatggcgcg cgccgcccc gacgcagacg cctacgatat cccgtgggtg 120
 gagaagtacc gccccgcccg cgtcgctgac gtcgtcggaa actccgatgc cgtcgcccgc 180
 ctggagggtca ttgcccgcga cggcaacatg cccaacctca tctctccgg gcctccgggg 240
 actgggaaga cgacgagcat cctggcgctg gcgcatgagc tctcggggc cagctatcgt 300
 gatgccgtgc tggagctcaa tgccctcagat gacagggggt tggatgttgt gcggaacaag 360
 atcaagat 368

<210> 54568
 <211> 169
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-049-Q1-K1-G4

<400> 54568

aaaaaacata aaaaaataa aaaaaataat ttaaactggt aaaacacaaa aaaaaaatca 60
 agagaaacgg tcaaatataa aactgattta agacaaatat ataaagggcg tccattattc 120
 aaaatacttg ctgtctaaca acagcatgaa acttgatgac cctagtтта 169

<210> 54569
 <211> 373
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-049-Q1-K1-G8

<400> 54569

gccgctgcta cgacttctgg ctggagttca gcgagtgcac gagccgctgc cgccagcccc 60

ccgactgcgg cctcctccgc gaggactatc tcgagtgcct ccaccactcc aaggagttcc 120

agcgcaggaa caggatctac aaggaggagc aacgtcagat cagagctgct gctcgtaagg 180

ccaaggagga agctgagggg gccctgctg ttgcagcaca ccattagtct ccctgtctat 240

tttttgtggt gttgttttct gttaactcat ctttggttca gttatgatgc taagggcaag 300

gcaataatct ccagctgttg gactacacag atttttttcc ccatgactta aatatcaaga 360

ctcattctgt gct 373

<210> 54570

<211> 249

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-049-Q1-K1-H1

<400> 54570

cccacgcgtt cggatacgcg ttccgacact cgtccgagca cgcgtgcgaa aaagaataaa 60

gaataaacag ataaagacag aagataaaaa aaaataaaga aagtgaaaaa taaataaaaa 120

aaatgggtgg cagctatata ggttgagaa tgatgttagg acatagcagt tatagaggtt 180

caatttagta aaacatatat aaaatgcagt gactgtagct gttaacagtc tgattgggta 240

aataatgga 249

<210> 54571

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-049-Q1-K1-H4

<400> 54571

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gcctaaatcc tctacatcct ggtgccatgg atatgagtca tatgacttgt acatataatc 120

ctgttttattc tatatttctat ggaaaatgct tattttaactt gttaacaatg taattatgct 180
tatgatattt ggatgatgat attgctcttg tttattacca tttttattag ttatccaact 240
tttaactctt gtaagttcca tccgtcttg atgggaatga ccattgagca agcaaaacag 300
atagatcatt acatgtgctc ggattgtgct aaagtaaagtg gtgcaaagtg accctcaaatt 360
tcatactgaa tttcaccaaaa ctcagattct aagattgaat caaatatgct catgagataa 420
atgc 424

<210> 54572
<211> 435
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-049-Q1-K1-H5

<400> 54572

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agtatccaca agtccaaggc tgagaaggcc agagagaaga cactttcaga tcagtttgag 120
gccaaagcgtg caaagagcaa ggcaagccgt gagaggaaga ttgctaggag ggaggaaagg 180
ctggcccagg gcccaagaga accaacagca cctgtcgcag cccagctcc atctactggg 240
gtgccaaaga aagcaaagaa gtgaagtatg gaaacaaagc tgtagctttt tgggtactata 300
taagcatgac tttggagcac ctgaagtatt ttgctgntct ataggttcgt gtctcaatat 360
tctgagtctt gtatctctac cggctctgtg gataatgcat gccgtaagag ttgtttatgg 420
agctcttggt gttac 435

<210> 54573
<211> 455
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-049-Q1-K1-H6

<400> 54573

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aatccagaag cgtctagaag ggggaggtg tcgcccata cgtctgacc ggccgtcgcc 120
atgggatgcy ctggatccac tccaaagact gacgataatg gtaagaattt gaagaaacca 180

aagccttgga agcacacca agcaataacg ccggcacaac tcagacagat gcgtgatgaa 240
 ttttgggaca ctgctcctca ctatggtgga cagaaagaga tttgggacgc acttagagcc 300
 gctgcagact ctgacctagc gcttgcgcaa accatagtgg atagtgctgg catcatcgta 360
 tcgaattctg acatgacact ttgctacgat gaaagagggtg ccaaatatga gctttcaaag 420
 tacgttctaa gcgagccaac aaacttgatc aagga 455

<210> 54574
 <211> 460
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-049-Q1-K1-H8

<400> 54574

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 gaattcagca tgctggagct ggctaagggtg gtccaggaca ccatcgaccc agaggcgcac 120
 atcgagttcc gtccgaacac cgcagatgat ccgcacaagc gcaagcctga catcagccgc 180
 gcgaaagagc tcctcgggctg ggagcccaag gtccccctcc gtgaggggct tccccgcatg 240
 gtcactgact tccgcaaacg tatcttcggg gaccaggaag ggtccaccga gtcagctggt 300
 ggcttttctt aagtgtcaa aacttggtga agtgacacgt ttgtatggta tatgacttga 360
 tacagttttg gcgctgtgct ctatacgtag ttgttatata gggatataaa tgtttgttaa 420
 agtacggaaa atagcctggc acgtataact atgtaacgac 460

<210> 54575
 <211> 435
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-050-Q1-K1-A1

<400> 54575

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 tccccacta cgactcgagc gagtgggact ggctgcgcgg cgcgctggcc accatggacc 120
 gcgactacgg catcctcaac cgcgtgttcc acaacatcac ggacacgcac gtcgcgcacc 180

acctcttctc caccatgccg cactaccacg ccattggaggc caccaaggcg atcaggccca 240
 tcctcggcga ctactaccac ttcgacccga cccctgtcgc caaggcgacc tggcgcgagg 300
 ccgggggaatg catctacgtc gagcccaggg accgcaaggg cgtcttcttg tacaacaaga 360
 agttctagcc gccgncgctc gcagagctga ggacgctacc gtaggaatgg gagcagaaac 420
 ccagaggagg agacg 435

<210> 54576
 <211> 344
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-049-Q1-K1-F5
 <400> 54576

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 tccacgaccc ggactaccat gtcgagctgt gcacagagct catcaactag atcatggact 180
 cgaccaaggc tgcggagggtg ctcgctaagc tgaactatgg aagcgaattc gcacacacgc 240
 tgggtggacac cctgatcctg accatgaacg gcataccaaa cagccttcaa aacaccggtt 300
 aaaccactaa gaggtgatct tgattattct cctgatcatt ggct 344

<210> 54577
 <211> 293
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-049-Q1-K1-D3
 <400> 54577

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 ggaccacaca aaaagagaag cgaaaaaaag aacatgacta actacgcata aacaaaagcc 120
 aagcactaca acgccagaca gccccctata atgaagtggg aaatgaaacg agcaatcact 180
 agatccttac gatcccagga accactctaa atgtaccagc cgagacctac agaactacca 240
 gccacaagc caaccacgcc ctctactag gatattatct atccctactt tcc 293

<210> 54578

<211> 405
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-049-Q1-K1-D5

<400> 54578

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 cctcttcggg gagggcggtgc tgtatgccaa gaaggactac aacctggcga agcaccacaca 120
 gattgatgtg cccaacctcc aggtgatcaa gctcatgcag agcttcaagt ccaaggagta 180
 tgtcagagag accttctcct ggcagtacta ctactggtag ctaccaacg atggcattga 240
 gcacctacgc aactacctga acctnccgtc tgagattgtg cctgccacgc tcaagaagtc 300
 tgccaggcca ctgggcgcgc catttggtc tggccctcct ggtgaccgnc caaggggccc 360
 tggtcgtttt gaagacagac caaagtttgg agacagggat gagta 405

<210> 54579
 <211> 393
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-049-Q1-K1-D6

<400> 54579

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 gtaccacagg tgtttgaatg ccaaagggga tgatgctggt gtttgcgaaa aatttgccaa 120
 gtactacagg tccctttgcc ctggagaatg gggtgagaaa tggaacgagc agagggagaa 180
 cgggacgttt ccaggacctc tctgaatgta ccgtccgaga ccttcagttg gaccagtcaa 240
 caagttggcc aggcagtcct actgttccat tctgcattcc tacttcccga atcgtaaattg 300
 ctttttgtcc cttgtcttc aaccagtcac cacaaaactg ttagtgatgc ctttcgtacg 360
 cagctctaata aatttggtta cagatgcccc aca 393

<210> 54580
 <211> 452
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-049-Q1-K1-D8

<400> 54580

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atgtgctcca tatggaaaag gctgaaagaa gttgcctcat gctgcattat tgtgtaaagt 180

gagcaaccat ttctatctca ttaaccgctc tgctcttaac aagtgaatt aattttggtt 240

cttgataaat acttgatttt gaagggcagg ctggtttagt gatgagagtt gtttcactaa 300

gtcaccggat cgtaagttcg aagcaacatc tctgcatttg cagaggaagg ctggtattga 360

tttattcttt ttctaggtcc cacacacgtg ggagtctctg gcactaggtc ttgccccttt 420

tataaatact tgattttgta ttaacagctt tt 452

<210> 54581

<211> 456

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-049-Q1-K1-E1

<400> 54581

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cggcgacgca gtcccagccg ctgccgacct gcccgttctg ccgcggcggc atcgcgcggc 120

tggtggtggc gacgcggacg agggctggcc acgacgacga gcgggacaag ctggagtcgc 180

ccaggcaccg ccggtcccggt cgggtccatga acctcagcgg cgacgcgggc agcaccagca 240

gcacactcat gggcagcatc gcctcgcca tcggcaagat gggccgcccg cgaacagata 300

gcagcgagca ggtcgacgac aagccgtagc agaatacttt catgcacccg tccattcata 360

atccacgtga aatcttgccg cgtcgtggcc gtcggcattc cattccttca ggaacgaaca 420

agccggtgtg ttttgagatt atttttggca aatgag 456

<210> 54582

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-049-Q1-K1-E4

<400> 54582

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gatctcgatg gcgaaccctc gcgtcttctt cgacatgacc gtccggcgcg ccccggcggg 120
ccggatcgtg atggagctgt acgccaacga ggtgcccaag accgcggaga acttccgcgc 180
gctgtgcacg ggcgagaagg gcgtgggcaa gtccgggaag ccgctccact acaagggtc 240
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cggcaccggc ggcgagtcca tctacggcga gaagttcccc gacgagaagt tcgtgcgcaa 360
gcacaccgtc cccggtgtgc tctccatggc caacgcggg cccaacacca acggcttcc 419

<210> 54583
<211> 415
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3088-049-Q1-K1-E5
<400> 54583

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gagaagtact tcgacgacac ctacgagtac aggcacgtcg tcctcccgc agaggtcgcc 180
aagctcctcc ccaagaaccg cctcctctcc gagaacgagt ggcgcgcgat cggagtgcag 240
cagagccgcg ggtgggtgca ctacgcgatc caccgnccgg agccgcacat catgctgttc 300
cgccgcccga tcaactacca gcagcagcag gaggcggctg ccgcgcagat gctggccaag 360
tgagcccctg gtggccaagg cggcgaccag gaacggttaa aaccctaacc ccctt 415

<210> 54584
<211> 347
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-049-Q1-K1-E6
<400> 54584

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atgttattat ctctctaccg ttcataatattt attgtgtcgc tggtttaagt taacaaaatg 120

accgacataa tatatcatag aaccggactc caagagactc ctattagcag ctggcttcct 180
 ttgtaaatgc acggtttagag accgatcgat tctgacagtg cttgattact ttacggaggg 240
 attatcgaac ggtacgaaat gttgtctcaa agtacttagt aatgatgtag tcatagtctt 300
 gatgaccagt atacattctg ctttgaacat cgtctagtct attaaca 347

<210> 54585

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-049-Q1-K1-E8

<400> 54585

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 caatgcaaat caagaaatcg acgggcaaat atttttctcc tgcaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaaaaaa aaaaaaaaaa aataaaaaaa aaaaaaaaaa aaaaaaaagg ggggcccggt 240
 ttaagaaccc aatgttacca tccttgcat gctacttcat aacctttata tagggccacc 300
 taaatataat ttacttgccc ctttttaaaa aacgtgaaac tggaaaaacc ctggctttac 360
 ccaatttaat cccctttaaa gaaaatccct tt 392

<210> 54586

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-049-Q1-K1-F2

<400> 54586

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 ctgtttctac aaagtgtaaa caaatatgca gagaaaatta agcaagctga tgaaccaaag 120
 ataatcgaca aaggagcggt tggtatcttg aaagacaacc cagttgctgg cacaaatggt 180
 ggtgccacgt gggcctacga ggttgctggc caaactatgg tttgcccaat aatcattgag 240
 gatctttcac cacctggtca gatgcttgtt gagatgcttt gcgaggaaca agggctcttt 300
 ctggagatag ctgacaacat acgtggaatt ggtctgacgg tcttgaaagg acggatggag 360

ctctgtgatg gcaagatatg gtcgcggttt cttgtcgagg caaacagaga ggtcacaagg 420
atggatatat ttctgtcgc 439

<210> 54587
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-049-Q1-K1-F3

<400> 54587

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taaaaaaaaa acacataaat aaaatataaa aaaacaaaaa taaaaaaaag gatagactgt 180
aaaaaccctc acaataccta actcaattaa tcttgaataa aatacccttt atgctatcta 240
ccataataac aaaaagggtc ttactttaaa accctttcca acatttaaat cattctgaat 300
tactaattaa actcactttg aaacaaatca ttatatccaa cagtttcata tattacaaac 360
aatTT 365

<210> 54588
<211> 370
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-049-Q1-K1-D1

<400> 54588

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ccggtatctc gcttccattt cacacccac gccctagcta taaagactaa tggttccagg 120
tgtctgaagt actgaagaca ggggggctag ctatctaatag ttcgtgccgc acgcatgagc 180
tgtaaggagg ccatgcttaa ttattctgtt gccgtgcta ctctatctat atgcgcctat 240
gcctccgtgc atgaactatg ctttaggtgg ttgctgctcc aactgtggg ggtgtgcttt 300
tgcttttgtg tggtcgtatt gtatgcgtaa cctgacagat ggatccctga ttgctacatg 360
tttgaataat 370

<210> 54589

<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-049-Q1-K1-A8

<400> 54589

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ccgtgagaga tgtgcaggag gcctgtgtac atgatggata tgttctaccc aaattgtatg 120
caaagggttc tcaactgtgc tcatgcgcaa tccatgcgca cattgtccgt gtccgctctc 180
gtgagaacag gaggaaccgt gagccccgc agcgtttcag acgccgggat gatggcccaa 240
ggcctgggtc gggcccgccg cgcccaggcg gtgcagctcc tgcagctgca gctgctgctg 300
ctcctcgta ctaagttctg gaattagttt cggggcttag ttttgtaaa cattacctgt 360
tttgagaaac cattgttact gtatccccct gatgtcaaac ttttagcac aatttgtggt 420
tctgaaaaag ttggttgaat gttgcagct 449

<210> 54590
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-049-Q1-K1-B1

<400> 54590

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gctacagtta gccaatatgt tgtctgtcta tgtcctcgcg aagtactaga gcagtagcta 120
cataccgtgg tttgtccata tcctgttggt agatgatcaa gggtgattag atacatgttc 180
tggaaccaat gttcagatga caaattgcaa actaaacacc cttttgctct ctatctttat 240
tttttttttg caattgcaat gcgtgtaaag tacattatca atgtcagccc caggcatatc 300
aataaaaaaa aaaatgaaca cacaaaaaaa agaaatataa aaaaacattt agaacaaaag 360
ggaaagagac ctattgcgat ctgcacccaa aacaaaaagc attaacattg aagct 415

<210> 54591
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-049-Q1-K1-B2

<400> 54591

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gttccgcgct ttgaactcta cgataatatt cagcgatatg ggctgtcat ctccaccatc 120
ccgcagcagc tttctagggt ccagttcaac atgggtgagct cttagaaggt gtccagcagt 180
ttactcatat agtcatccaa aacattgttt ttgtactata gactgcactg ttcgcagagt 240
ggagtttaaa tatagctatg tggatgagta agctgctgag atagacgtag ggtgatgaca 300
caagaagata gtgtggccaa gacagctgtt ttgttgactt ccgttgagat ggatcttcaa 360
catgctgagc tagctgatca acgtgccttg actgggttta tttcattgtg ctggattttt 420
tttatct 427

<210> 54592

<211> 244

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-049-Q1-K1-B3

<400> 54592

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ggtgattgac cctgatgacc tgctggtata gtcgctaggg aggagcgaac taagcgagag 120
cgatcccaca tttgatcaga ggatgtgggt agagacattc aggggattat agacctggtc 180
cttgacaagg gacgagatta catattggaa cgtaaacagc atttggctac agatctatca 240
cgat 244

<210> 54593

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-049-Q1-K1-B5

<400> 54593

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agggtttaga ggttttctgg gcgcggagcg gacggcggcg gcggcggcgg ctatggctgc 120

ggcggaggag gagatcgagg tgaaggagcc gctggatctg atacgcctca gcctcgacga 180
 gcgcatctac gtcaagctcc gatccgaccg cgagctgcgc ggcaagctcc atgcgtatga 240
 tcaacattta aacatgatac ttggagatgt tgaagaggte gtgacaactg ttgagataga 300
 tgatgaaaca tatgaagaaa ttgtgcgcac cacgaaacgc actatcccct tcctttttgt 360
 ccgaagtgat ggtgtcatat tggtttcttc aacccttcgt a 401

<210> 54594
 <211> 339
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-049-Q1-K1-B8

<400> 54594

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 gtgcggtggt gcgccgggaa gcaacacttg ctcgccaaaga agaacaccaa gcgcaagaag 120
 agactctcca agatgctatt tttgactgct tcaacggggg cgatgtcggg gaggccgagg 180
 cgggagaggc caagtctgc cgggccacac ccggaccga gctccacggc ccgagttccc 240
 gggaagcggg gcacgtcggc aaaggggagg gccgggtcgc ggatgcagcg ctcgacgaac 300
 ttgacgagga ccagggacga gggccacaca gaggtgccc 339

<210> 54595
 <211> 421
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-049-Q1-K1-C1

<400> 54595

cccacgcgtc cggccaaccg ttggatacat cgctcatgag gccatggtct agaaggacta 60
 gagcgtaaag gcagctggcg tgtggacatg cggcgcgacc aactacgtga cgcttgagat 120
 caccatcatt catagagact acgatgcata catcgtgaag aacctcatag atggcctaga 180
 caatgacaac agtactaata aggagatcga cgagcctgaa caacacgacc atagcaagag 240
 acagatcatg cagaaggatt tgatctacga gaacattaca tcgaaagggt cacatagacc 300
 tcaagcagcc atagaaggca acatacgacc tgagcattac aaggatgacc tagactaaaa 360

taccgatctt taccaaccaa gattgaatgg acaaaatgta tgctattgga caacattgaa 420
t 421

<210> 54596
<211> 189
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-049-Q1-K1-C4

<400> 54596

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cgctctcagg aagatgagag cggctggtac gcacactgac aagaagaaat aaagcatttc 120
aagttcatga atgtgtnga nngagtagat gntcttctat tgcccaatat atatacgacc 180
atcagtctt 189

<210> 54597
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-049-Q1-K1-C5

<400> 54597

aacgaggggtg ctgatggaga gcatccacat gtccaattct gagaaggcca gggagaagac 60
gctctcggat cagttcgagg ccaggcgcgc caagagcaag gcgagtcgcg agagggaagaa 120
tgctaggagg gaagagaggc tggcccaggg cccaagagaa ataccaccac cagtctcagc 180
cacagctccc actaccgggg caccgaataa agcaaagaag tgaagtattg caacaaagct 240
gcagcttact agtccagtac ttcgtaattt tggagcgccc tgatcaattt tgctgttata 300
cagcttcgtg tcttttattt tccaaaagct accgtacctg gattggtaga gatgtttacg 360
cagagtttct ttggaagaag atccgctcaa aaaagtttat ttggatc 407

<210> 54598
<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-049-Q1-K1-C7

<400> 54598

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tagttgggct agcatgtacg cattcagaat ctgaaaaaag accaacaatg cttgaagttg 120
tgcccttgct gaaaggcgaa tcaaaagaaa cccttcttaa gcttgaaaga gatgagttgt 180
tcagctcaga ctcgatggtg agttcacaag gaacaccaac ccagatggg ggcacagact 240
ctgtgccaaa ggaagatcaa gaacttggtg gagcgtgaaa tgtgatatgt tgctactgta 300
ggcgatggta gaatgcggat ttgtgttatt ggttgatggt tggtttggtc ggtttgacat 360
gaatgtaa at tgtataggca ttggtttctg taaagaagta tttaccatt ccttttgaga 420
gattaaagaa gagcatgggg gctgg 445

<210> 54599

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-049-Q1-K1-A6

<400> 54599

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ctatggtggc gtttcaaggt ttcaggatgc aaggggtcgc aaccagtcta ttccatcagg 120
cagaggtggt gatggtggtg cacgcatggt gaatctgaac aggattggtg gggtttagaa 180
gtgataat ttcagctcgag taagcctgaa attctcctaa aagccaagtt ttgaatcact 240
ggtttttaca tagtttctctg ttctgggctg agccatccac ctgtttacta catttcgttg 300
tagcctttta atttaagggg ctaggaaatt gaactaagag tttggtactg tgaactaaga 360
gtttggtact gtttctggg agtgtgactt cactccaata tttgatatct atctgtgaca 420

<210> 54600

<211> 436

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-047-Q1-K1-G6

<400> 54600

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gcgagagctt gcattgtaac ctgtggaggc ctttgccctg ggctcaatac tgtcatcaga 120
gagttggttt gtggcttgtc ccacatgtac aacgttagca atgtcttcgg aatacagaat 180
gggtacaagg ggttctattc gagcaattat cttcccatga caccaaagag tgtgaatgat 240
atccacaaac gaggtggtac agttcttgga acatcacgag gtggccatga taccaaaaag 300
atcgttgaca acattcaaga tcgtggaatt aatcaggtat tcattatagg aggagatgga 360
actcanaagg gtgcatatga gatttacaag gaaatccgga gacgtggtct acaagtagct 420
gttgctggta tttcca 436

<210> 54601
<211> 357
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-047-Q1-K1-G7
<400> 54601

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gacgaagtaa tcgtatgata atgataacac cattgtgaca aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaaaaaaata aaaaaaaaaa aaaaaaaata aataaaaaaa aaaatggggg 240
gggagatttt taaaggagga aaatcaaaat tgagtgcacat gaaaagggat tttttttttt 300
tggggggcga aaaaataaaa ttgtggggcg ttttaataaaa aggggggttca tgaaaaa 357

<210> 54602
<211> 335
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-047-Q1-K1-G8
<400> 54602

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gtttaccatc cgcgagaagt tgaatgcggc aaccagcagc atgttgaagt cccagaagg 120
ttgcgctatt ttgtttttga aagggttgta tatgaacct gatgggttatt aagaaaaaga 180

atacagggtca gttacacgat tttgtccacc acacagggtgg taagcttgga acttagctgt 240
catttttttaa tattaaaaac ctaacgtgga aaaaaaaaaa aaaaaaaata aaaaaaaaaa 300
aaaaaaaaaa aaaaaaaaaa aaaaaaaaag ggcgg 335

<210> 54603
<211> 128
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-047-Q1-K1-G9
<400> 54603

gtgactcgtg ggcttgccccg tttttgcatt atgtgaaaag gctttgatct ggaggagg 60
gacactcttt cacacacctt accactgcac taccatcctt attatataaa gcgccgaaa 120
ctgatgct 128

<210> 54604
<211> 377
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-047-Q1-K1-H1
<400> 54604

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caaatggcaa attgcacact ttttataagc tatgttggtc tcacattaga ccagttgatt 120
aatattgaac aattaatata gcaaaaaaaaa tgccatgaac cagctactat gtatgaactt 180
gataagtatt tttagcaggc actcaagact attacagtgg actattcgtg tgtcacaagt 240
tttttgtaga accagcactt atgatggtat ttttccatt gaagctaaaa ctttttttat 300
tggtagactg gttgctggga ttgaaagaaa aattaactaa gcgtgttatg agcacgtgat 360
tatttttggg aagttgc 377

<210> 54605
<211> 413
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-047-Q1-K1-H11

<400> 54605

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ggcatttggga ctctacctt gaaaaaccag ataatatagc atgacgggtc tgtccagaag 120

atagcagaaa tcccggacga tcttaaagca atctacaaaa ctgtttggga gatcaagcag 180

aaaacttttag ttgacatggc ggttgaccgc ggatgctaca tcgaccaaag ccagagcctc 240

aatgtccaca tggagcaagc aaactttggg aagctgacgt ctcttcactt ccatgcttgg 300

tccaagggcc tgaaaactgg aatgtactat ctacgcacac gagctgctgc tgatgcgatc 360

aagttcacag tggataccac gcttctgaag gagaatggga acgggggttag cga 413

<210> 54606

<211> 229

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-047-Q1-K1-H12

<400> 54606

aataaaataa taaaaaaaaa aaaaaaaaaa aaataaaata aaaaaaaaaa aaaaaaaaaat 60

aaaaggggtg gccgttttat attataaaaaa ttacataacc tgttcatgaa acgaaataga 120

tttttttttag ttgaacttaa attaaatcaa ctgtgctgca tttaaaaaag tcataacttg 180

aaaaaccata tggttcacia aataaatggg tttgtaacaa atctccttt 229

<210> 54607

<211> 412

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-047-Q1-K1-H2

<400> 54607

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aattgaagat cacatggcta gcagatatag aggagctagt tcccctttca ttggttgaat 120

ttgattacct catcagcaag aaaaagctag aggaagacga ggacttcctc gacaatctca 180

acccttgcac tcgacgggaa atcccagccc ttggagatgc gaacatgagg aacatcaagc 240

gtggagagat catacagctc gagaggaaag gctactatag gtgtgatgcc ccttttatca 300
gatcgtccaa accggtggtc ctgtttgcga tcccagatgg caggcagcag gcctcgttta 360
gctaggcatg gtgaccaccc tttngngcac atggaattcc tgaagtggcg at 412

<210> 54608
<211> 293
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-047-Q1-K1-H3

<400> 54608

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gatctatctg gctgggtgctg tgcttgcttg ttggctacct cggggaagct aaaaatatct 120
cgtcttgctg acatccttgc agttgccgcy tgaacaagta atctatgatg gcaatgtttg 180
cctggccatg aagtattatt actttcgttg aaaccgtgat gctattaaga cttaattttt 240
tttatggacc atcgaatgta aggcatacat gggttatgagt ttggctctcc cct 293

<210> 54609
<211> 275
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-047-Q1-K1-H4

<400> 54609

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ttagatgcaa gaaacaaggc aggaatgact ttgtcatagc cctgcaacca tcataagcca 120
tgtacatgaa actaacggtc aaaaaacccg gactggaaat agctaccgaa caaagcgaac 180
tggatctatc gtatgggatg cgttacaatg gcgtcaaaat cccagaagca tacgagcgtc 240
tcattcttga tacgattaga ggagaccagc agcac 275

<210> 54610
<211> 255
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-047-Q1-K1-H5

<400> 54610

gtcgcaccacg cgtacggaaa ggcgaaggaa tttagaaaga acgaggccca ggagagtgtc 60
atagctgaat catatggcgc aggtaatgat gaattgcggc aaaaaaagaa aaagaaatca 120
actaagtcca agtagcccta atcctcatgc ataatgacac tggcaattga gaaggattgc 180
atgagccatc cctataatta tgtcattcat gctgtgatcg tattagatga tgaaacaaaa 240
ttcgaacctt ccgct 255

<210> 54611

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-047-Q1-K1-H7

<400> 54611

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ggacagttag aattcctccc aaaattcttc atcgaagaac aacaattcca gttcttggga 120
cgattgggac gaccaaggca agaaggggtga acctgcaaaa ccgcaccaa gcaagtactc 180
ctgggctggc tgggatgatg ggaaggacga tgggtttgat agtcctggtt acaacaacca 240
caacagctct aacaagggga gcaaccacaa cgggacttcc ggtggctcat tttggaggga 300
aggcggcttc cgctgaaacc gttctcttct ccatagagtt atactttcag agttgttaca 360
ttg 363

<210> 54612

<211> 249

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-047-Q1-K1-H8

<400> 54612

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acattattaa ccttgaaag acctgggaca agcttcagtt ggccgccagg gtcacgttg 120
ccattgagaa tccgcaggac attatcgtgc agtctgctag gccctatggc cagaaggctg 180
tcctcaagtt tgcgcagtac actggtgccc atgccattgc tggcaggcac acttctggta 240

<210> 54613
<211> 240
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-047-Q1-K1-H9

<400> 54613

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acatacttaa cggtcacatg aaatgcaacc gactatgatg gggattctgc tgaactgtat 120
gcgttcaaaa ggacaactat attgatccgc cccaccactg tgcttgtgat caacctgctt 180
ggcataatgg ctggcgttgc acttgctatc atcacgttgt tccaatgcat cacttccact 240

<210> 54614
<211> 423
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-049-Q1-K1-A1

<400> 54614

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gtgtacgaat ttgtaccaca aagggatagc cttagtttac tttcaaacct ggaaccgtgg 120
caatttctcc aattgagatg ttccagtctg tctttacact tgttgaagat gaaatgatgg 180
gtgatcctgc atatcttatt gctgtcatca tagagtttct acggagtgtc tcaaaggctg 240
ggcttaaggc tcttcacaac ctttatgtga tgacggcgac actactagct cgtagcaacc 300
gttacgctga aatagcattg tttgtgtcaa acaagattct tgagccgtgt aaagaactgg 360
caatgcaact tatggagctg ggtctgcagc acccgncaac gaggaagctg ggcatggaca 420
tgc 423

<210> 54615
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-047-Q1-K1-G5

<400> 54615

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gaaacggtag aacaagagaa gacctaacct ctaaggaaat tgccactgga gcctcagagt 120

tcagacacgg aagcgcgggc accaaatctc tgtttctgaag tgtctcaact gccagctcaa 180

aattgatgct tgggtgcctct agtctactgc tcattgctca cagagtcaca ggtgtaggaa 240

gtttcagaag tgcggcttcg aagactgcat ttgattttga ctgagttgct gcctatatga 300

caatcaaagc tgcacaggct ccgaagtggc tgtgatgtgt tcttaaagag tcgcatcagc 360

gcaggaagag cccagatttt gaagttcatg tgtagctaaa tttcgatata agcttgaacg 420

gcttccctta gctgatgtat atacat 446

<210> 54616

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-049-Q1-K1-A3

<400> 54616

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aacaatagct ggagtgatat gaaacattag tgatgtagtt gtgggctttt gaactgcttc 180

aagctggagt gatgtcgttg tgggtgctttt gtgactgac tagtcgtgaa tgatattata 240

attgtgaaaa aaaaaaatga aatgaactaa aacatacacc tgtataatac attaaaaatg 300

aacactatta atttaaagga ctaagaaatt gaaactaaga attaggtact gtgaaactaa 360

gagtttggtg ccgaaaaaaaa aagggggtga ctttttaag 399

<210> 54617

<211> 451

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-049-Q1-K1-A5

<400> 54617

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tcgcatccaa aaccccaact cgtcccgcat cgatggggcc caaggccgag aagaaacccg 120
cggcgaagaa gccggcggag gaggagccccg cggccgagaa ggcgcccgcc gggaagaagc 180
cgaaggcgga gaagcgggtc cccgctggca agtccgctgc caaggaaggc ggcgagggca 240
agagggggcaa gaagaagggc aagaagagcg tggagacctt caagatctac atcttcaagg 300
tgctgaagca ggtgcacccg gacattggca tctcctccaa ggccatgtcc atcatgaact 360
ccttcattaa cgatatcttc gagaagctcg ctgctgaagc cgncaagctc gcgctgata 420
acaagaagcc taccattacc ttccgtgaga t 451

<210> 54618
<211> 426
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-047-Q1-K1-E8
<400> 54618

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ttccagattg aagaaccagt tccaagctgg agagggcatg attacagttg actgcatcga 120
aggttatcca ccggctcagtt tactgctagg aaagcatgtt tttctaagtg caggggattt 180
ttatctggct agtcgaccc tcttctggtt gctgcatccc aattttgact gcctcaccca 240
ttgttttgcc gcaatcagct taaaacagct tggttccatt tatgcatctc accgaagtca 300
tgtattcagt aaagggtgaaa gtctcaatgt acgcttatat gctatagcat gatatgcatt 360
tgcgcccttg ggctgggcac atgtaagcta agattttaaa atattcggct atgggtccca 420
tatgtg 426

<210> 54619
<211> 420
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-047-Q1-K1-E9
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<212> DNA

<213> Zea mays

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<211> 400

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agttttgatg tagcagctct cagctctgcc actgctacac caacttatgg catgtataag 240
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